Saskatchewan
Energy and Mines

Catalogue of Maps, Publications and Services

Miscellaneous Report 84-7

Printed under the authority of the
Minister of Energy and Mines

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Foreword

General

This edition of the Saskatchewan Department of Energy and Mines Catalogue of Maps, Publications and Services supersedes all previous editions and supplements.

It contains a comprehensive listing of the items presently available from the Publications Office of the department. In the case of numbered publications, the unpublished and out of print publications have been included. In most instances publications concerning the Precambrian Shield are also obtainable from the field offices of the Saskatchewan Geological Survey located in Creighton and La Ronge.

Proprietory Rights

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Out Of Print

Most of the out of print publications are available for perusal in the Publications Office. Xerox copies of part or all of the available out of print publications are obtainable by arrangement with the Publications Office - this service is not provided where the publication concerned is still in print.

Base Maps

Prints and/or duplicate master copies of many of the map bases used in the production of the maps published by the department are obtainable by arrangement. Contact the Publications Office for details.

New Publications

All new publications are announced quarterly. If you wish to receive these announcements and/or the supplemental pages to update this catalogue please contact the Publications Office for further information.

Additions To Catalogue

It is not the present policy of the department to publish a new catalogue annually but rather to periodically publish supplemental pages for those sections of the catalogue where additional items have become available or other alterations have occurred. These new pages will be sent automatically to those addresses appearing on the catalogue mailing list as the pages become available.

Prices

The prices listed in the accompanying price list reflect recent increases and include handling charges and will be adhered to for as long as possible. If price changes become necessary in the future they will be detailed in the quarterly new publications announcement and in addition a new price list will be printed and mailed to those addresses appearing on the catalogue mailing list.

Payment

With the publication of this catalogue Saskatchewan Energy and Mines is initiating a "prepayment is preferred" policy. Should invoicing be required and at the time of invoicing the total invoice is less than the minimum the customer is advised that there will be a minimum charge per invoice -this minimum charge will apply to all telephone, telex and mail orders but does not apply to those mail orders accompanied by payment in full for the items requested, nor for over the counter cash sales.

Packaging

All maps will be sent folded unless otherwise requested. Should flat maps be requested and mailing tubes be required an additional charge will be made.

Address

Please address requests to:
Saskatchewan Energy and Mines
Publications Office
1914 Hamilton St.
Regina, Sask., S4P 4V4
Telephone: (306) 565-2528
Telex: 071-2786

April, 1984

Other Offices

While the majority of the functions of the Department of Energy and Mines are carried out at the head office located at 1914 Hamilton St., Regina, the deparment also maintains offices at other locations. Their functions and locations are:

Subsurface Geological Laboratory, 201 Dewdney Ave. E., Regina, S4N 4G3, phone (306) 565-2621. This is a rock study and examination laboratory and central storage repository of drill core and rock chip samples from all bore holes drilled in the sedimentary area of Saskatchewan under the Oil and Gas Conservation and Mineral Resources Acts, and also of rock samples collected by departmental field parties conducting geological surveys in the Precambrian area of northern Saskatchewan. Industry representatives wishing to examine or study samples should contact the above address for details of services and facilities available. Tours by interested groups may be arranged.

Precambrian Geological Laboratory, La Ronge. The laboratory building contains the administrative offices of the Department of Energy and Mines in La Ronge, a core and rock examination laboratory, and a storage warehouse containing diamond drill core and other rock sample collections. The core and rock samples provide a record of the mineral exploration and mining developments in the Precambrian area of Saskatchewan and, if non-confidential, are available for inspection. For details of services and facilities available please contact

The Department of Energy and Mines,
Box 98
La Ronge, Sask., S0J 1L0
Phone (306) 425-4499
or:
The Department of Energy and Mines
1914 Hamilton St.
Regina, Sask., S4P 4V4
Phone (306) 565-2576.

Geology and Mines Division Field Offices are maintained at Creighton and La Ronge to assist the mineral industry, by providing information on exploration opportunities and activities and mining development in northern Saskatchewan, by maintaining technical files for their respective districts and, at the La Ronge office, by providing for some local administration of the Mineral Disposition Regulations, 1961.

The addresses and telephone numbers of these offices are:

The Department of Energy and Mines
Box 70
Creighton, Sask.,S0P 0A0
Phone (204) 687-6466

The Department of Energy and Mines
Box 98
La Ronge, Sask., S0J 1L0
Phone (306) 425-4499

Development Branch Field Offices of the Petroleum and Natural Gas Division are maintained in Lloydminster, Kindersley, Swift Current and Estevan. The duties of the staff at these offices include the collecting and compiling of drilling, production and petroleum reservoir data; the on-site inspection of physical facilities and records; measuring and testing production from wells; checking of standards, procedures and equipment used by industry in its drilling of, production from and abandonment of wells; enforcing all regulations, orders and policies pertaining to pollution control and assisting landowners with problems associated with the misuse of lands by the petroloum industry.

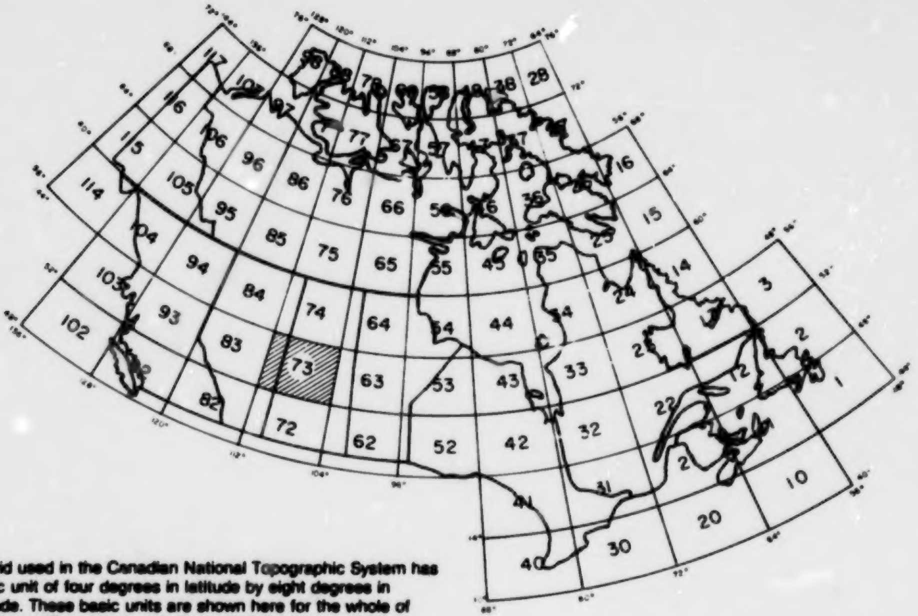
The addresses and telephone numbers of these offices are:

Department of Energy and Mines
2nd Floor, Mar-Nan Bldg.
5305 50th Ave.
Lloydminster, Sask., S9V 0P9
Phone (403) 825-8977

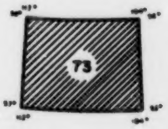
Department of Energy and Mines
Box 850
Kindersley, Sask.,S0L 1S0
Phone (306) 463-2523

Department of Energy and Mines
Provincial Bldg.
350 Cheadle St. W.
Swift Current, Sask., S9H 4G3
Phone (306) 773-4213

Department of Energy and Mines
1219 5th St.
Estevan, Sask., S4A 0Z5
Phone (306) 634-3671

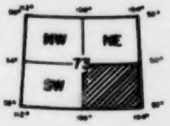


(1) The grid used in the Canadian National Topographic System has a basic unit of four degrees in latitude by eight degrees in longitude. These basic units are shown here for the whole of Canada, and the system of further subdivisions is explained below in paragraphs (2) to (8). Figure 2 on the next page shows the NTS map sheet numbers for Saskatchewan.

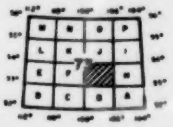


(2) 1:1,000,000* and 1:1,013,760 (one inch to 16 miles) scale maps. The unit area shown shaded on the map in paragraph (1) would take this reference form 73

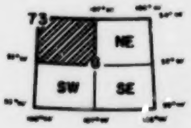
(3) 1:500,000 and 1:506,880 (one inch to eight miles) scale maps. For maps at these scales each of the map sheet areas in paragraph (2) is subdivided into four sheets numbered S.E., S.W., N.W. and N.E. for which the reference number takes this form .... 73-S.E.**



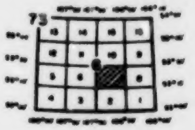
(4) 1:200,000, 1:250,000 and 1:253,440 (one inch to four miles) scale maps. For maps at these scales each of the map sheet areas for paragraph (2) is subdivided into 16 sheets numbered alphabetically from A to P for which the reference number takes this form 73-G**



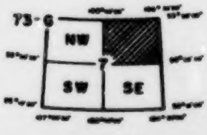
(5) 1:100,000, 1:125,000 and 1:126,720 (one inch to two miles) scale maps. For maps at these scales each of the map sheet areas in paragraph (4) is subdivided into four sheets numbered S.E., S.W., N.W. and N.E., for which the reference number takes this form .... 73-G-N.W.**



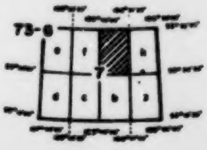
(6) 1:50,000 and 1:63,360 (one inch to one mile) scale maps. For maps at these scales each of the map sheet areas in paragraph (4) is subdivided numerically into 16 sheets numbered from 1 to 16 for which the reference number takes this form 73-G-7**



(7) 1:31,680 (one inch to one-half mile) scale maps. For maps at this scale each of the map sheet areas in paragraph (6) is subdivided into four sheets numbered S.E., S.W., N.W. and N.E., for which the reference number takes this form .... 73-G-7-N.E.**



(8) 1:25,000 scale maps. For maps at this scale each of the map sheet areas in paragraph (6) is subdivided into eight sheets numbered alphabetically from a to h for which the reference takes this form 73-G-7-g**



* These figures are map scales expressed as a numerical ratio of one unit of measurement (e.g., centimetres, inches, etc.) on the map to the equivalent unit of measurement on the surface of the earth. In this example a measurement of one centimetre on the map would indicate a distance of one million centimetres on the surface of the earth.

** This style or method of showing NTS area numbers is not totally correct. These numbers should actually be shown as:

73 S.E.; 73G; $73\frac{G}{N.W.}$; $73\frac{G}{7}$; $73\frac{G}{7}$N.E. and

$73\frac{G}{7}$g, but due to typewriting and computer printout

considerations and possible misinterpretations (e.g., 74NW could be taken to be either the West half of NTS Area 74-N or the Northwest quarter of NTS Area 74) the style shown here was preferred. Several different variations of listing NTS Area reference numbers may occur in this catalogue.

Figure 1 — Explanation of the National Topographic System

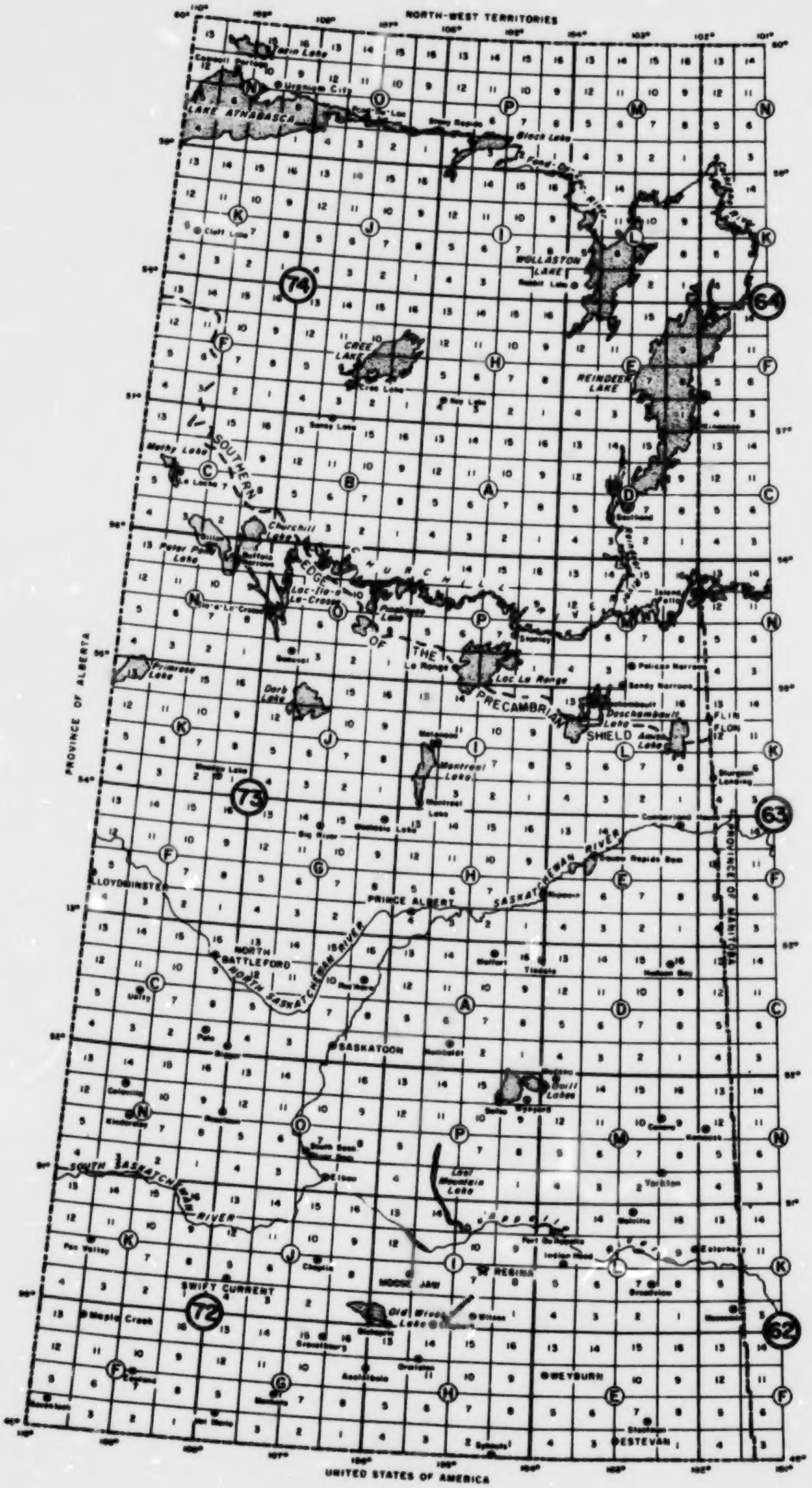
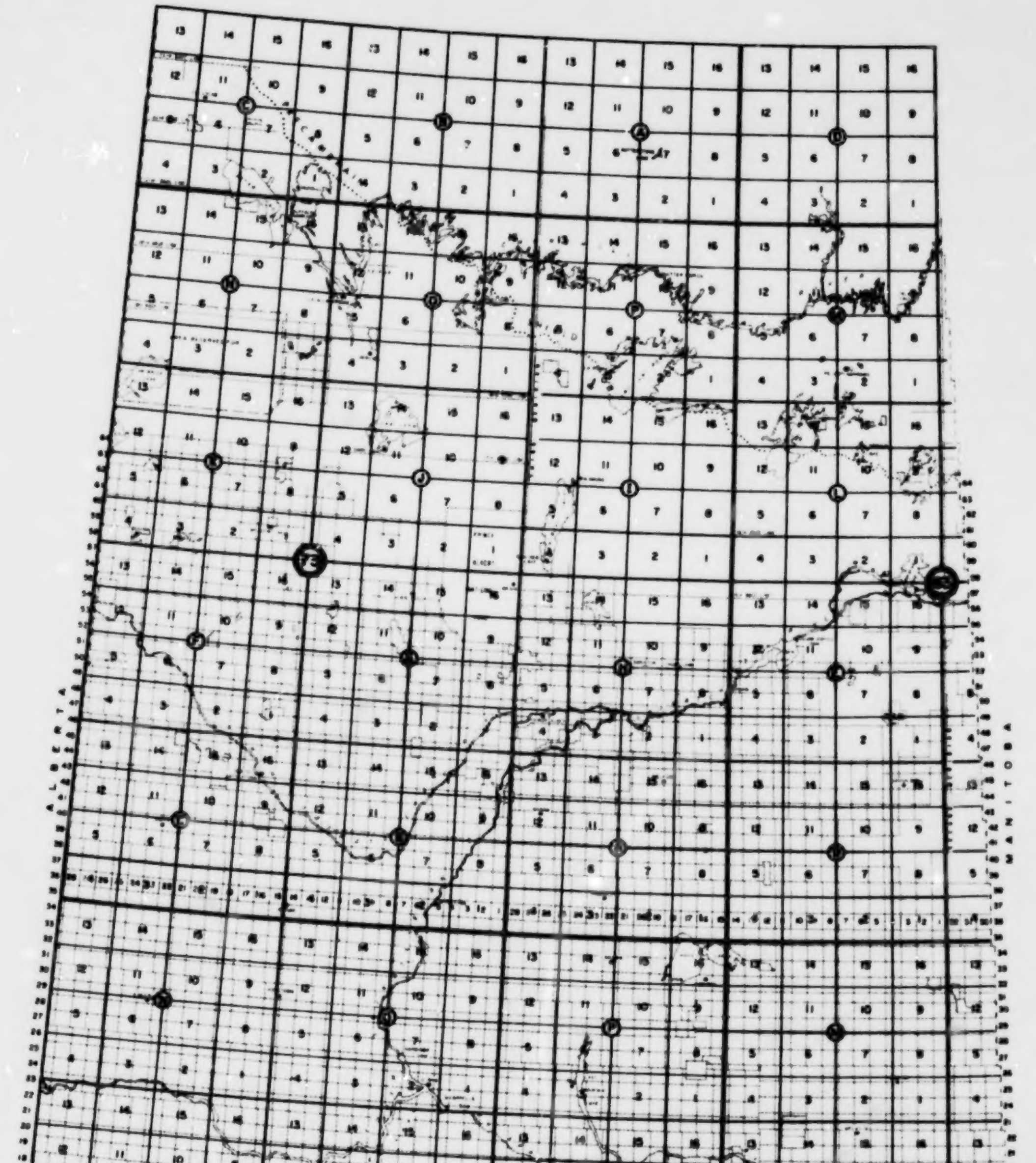

NORTH-WEST TERRITORIES
LAKE ATHABASCA
Uranium City
Black Lake
WOLLASTON LAKE
REINDEER LAKE
CREE LAKE
SOUTHERN EDGE OF THE PRECAMBRIAN SHIELD
CHURCHILL RIVER
Churchill Lake
Peter Pond Lake
Lac-la-Ronge
Primrose Lake
Doré Lake
Montreal Lake
Flin Flon
Deschambault Lake
Amisk Lake
PROVINCE OF ALBERTA
PROVINCE OF MANITOBA
LLOYDMINSTER
PRINCE ALBERT
SASKATCHEWAN RIVER
NORTH BATTLEFORD
NORTH SASKATCHEWAN RIVER
SASKATOON
Quill Lakes
Last Mountain Lake
SOUTH SASKATCHEWAN RIVER
Qu'Appelle River
Yorkton
REGINA
MOOSE JAW
SWIFT CURRENT
Maple Creek
Old Wives Lake
WEYBURN
ESTEVAN
UNITED STATES OF AMERICA
74
64
73
63
72
62

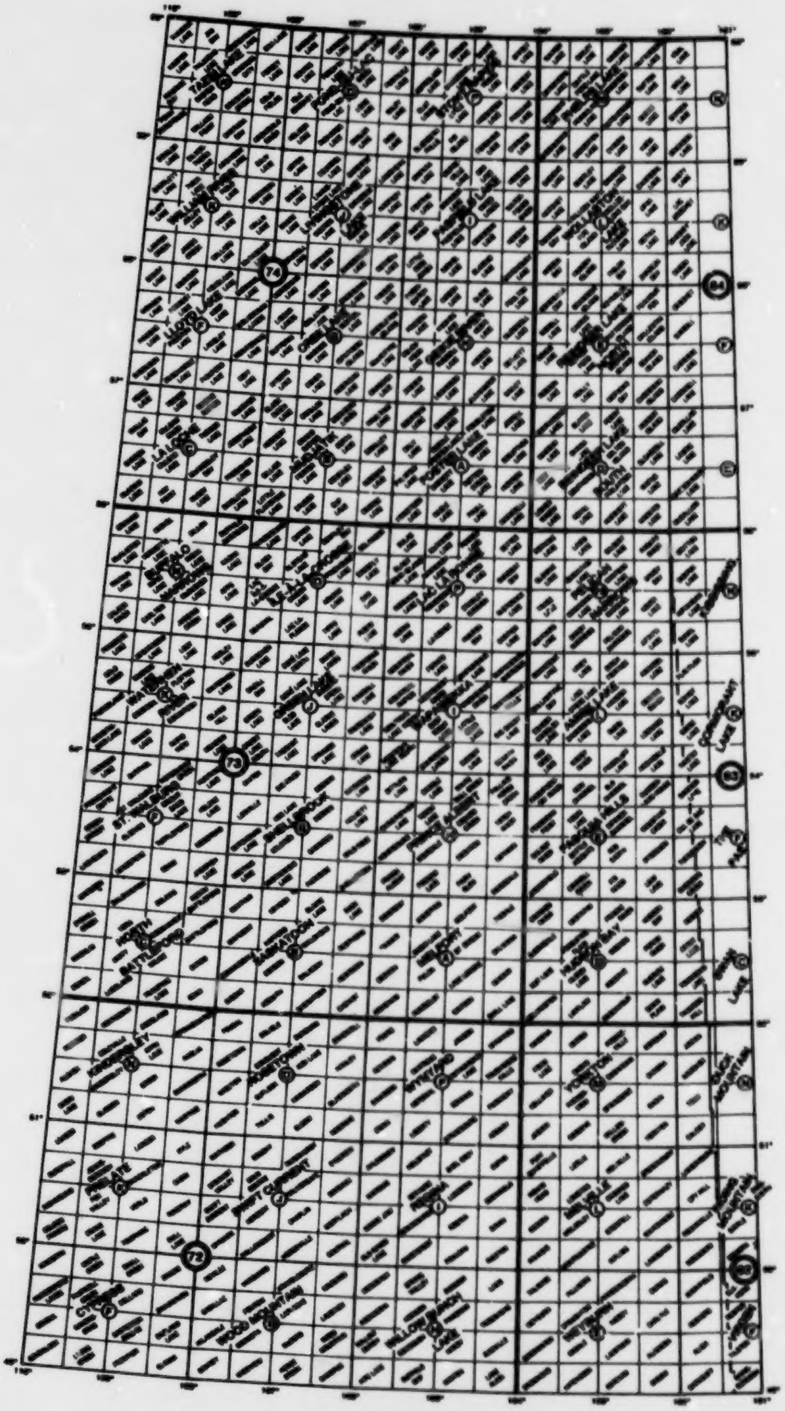
Figure 2 — National Topographic System Grid in Saskatchewan

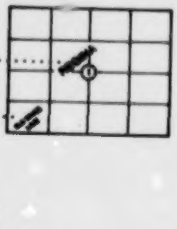
April, 1984



ALBERTA
MANITOBA
UNITED STATES OF AMERICA
73
72
63
62

Figure 3 — Relationship of the National Topographic System Grid to the Township Grid in Saskatchewan





1:250,000 and 1:253,440 maps

1:50,000, 1:31,680 and 1:63,360 maps

Figure 4 — Index Map of the National Topographic System Map Titles in Saskatchewan

April, 1984

Acts and Regulations

The following Acts and Regulations passed by the Government of Saskatchewan pertain to the exploration for, and development, production and conservation of minerals* in the Province of Saskatchewan. These are available from the Publications Office of the Department of Energy and Mines.

Acts (with Amendments)

The Coal Conservation Act.

The Department of Energy and Mines Act.

The Freehold Oil and Gas Production Tax Act.

The Mineral Resources Act.

The Mineral Taxation Act.

The Natural Gas Development and Conservation Board Act.

The Oil and Gas Conservation Act.

The Oil and Gas Conservation, Stabilization and Development Act.

The Oil Well Income Tax Act.

The Pipe Lines Act.

The Public Utilities Companies Act.

The Road Allowances Crown Oil Act.

The Sand and Gravel Act.

Regulations (with Amendments)

Alkali Mining Regulations.

The Coal Mining Regulations, 1957.

The Delayed Payment Charge Regulations, 1970.

The Freehold Coal Tax Regulations, 1979.

The Freehold Coal Production Tax Regulations, 1984.

The Freehold Oil and Gas Production Tax Regulations, 1983.

The Geophysical Exploration Regulations, 1964.

The Helium and Associated Gases Regulations, 1964.

The Mineral Disposition Regulations, 1961. (Office consolidation)

The Natural Gas Development and Conservation Regulations, 1976.

The Natural Gas Pricing Regulations, 1983.

The Oil and Gas Conservation Regulations, 1969 (includes The Oil and Gas Conservation Act). (Office consolidation).

The Oil and Gas Incentive Regulations, 1978.

The Oil Shale Regulations, 1964.

The Oil Well Income Tax Regulations, 1981.

The Petroleum and Natural Gas Regulations, 1969. (Office consolidation).

The Pipe Lines Regulations, 1955.

The Potash Conservation Regulations, 1969.

The Potash Proration Fee Regulations, 1972.

The Potash Reserve Tax Regulations, 1974.

The Quarrying Regulations, 1957.

Regulations Under The Mineral Taxation Act, 1973.

The Subsurface Mineral Regulations, 1960. (Office consolidation).

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* The Mineral Resources Act defines "mineral" to include coal, oil and natural gas.

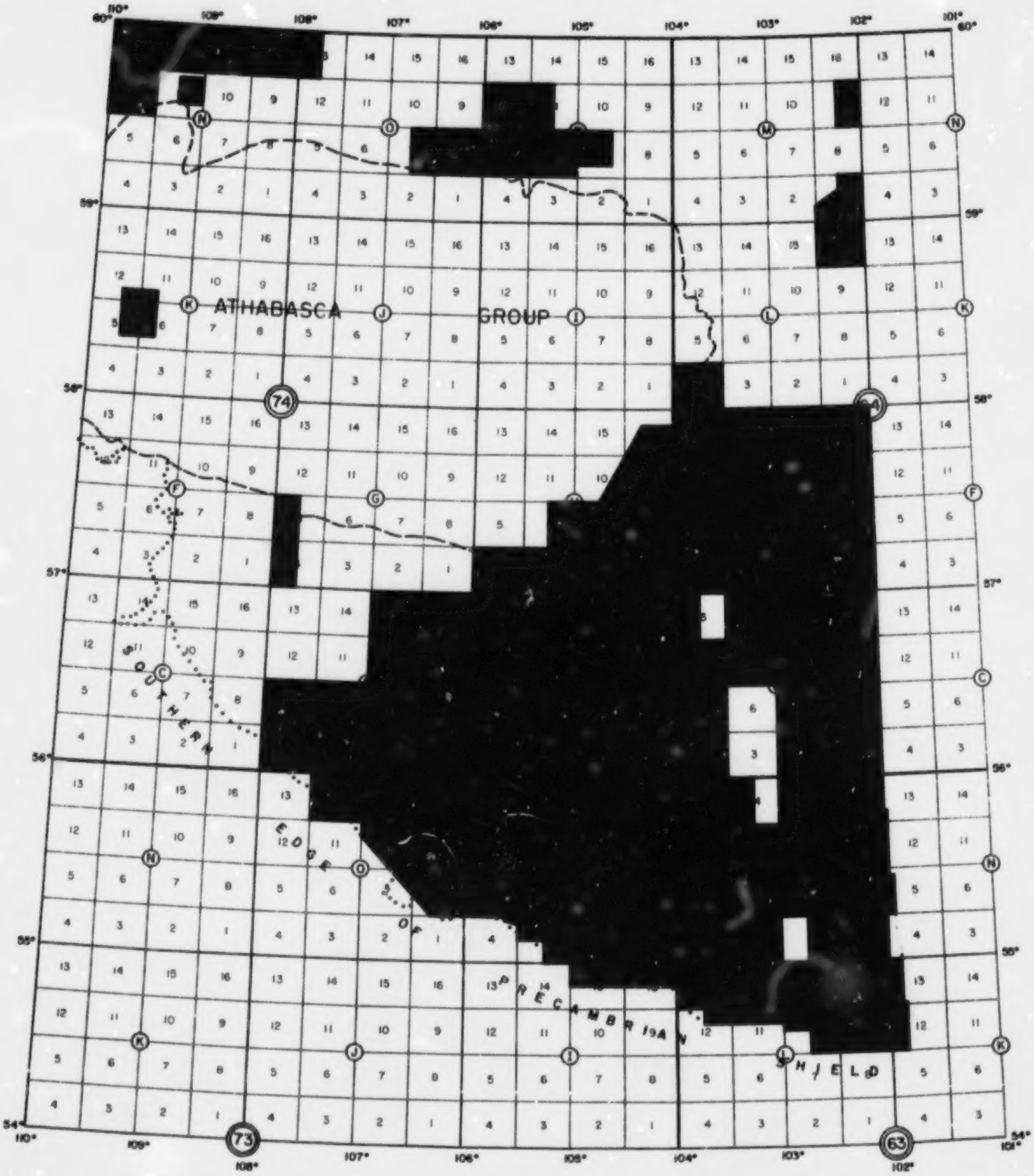
ATHABASCA GROUP
SOUTHERN EDGE OF PRECAMBRIAN SHIELD
74
73
64
63
110°
109°
108°
107°
106°
105°
104°
103°
102°
101°
60°
59°
58°
57°
56°
55°
54°

Figure 5 — Index Map of Precambrian Geological Reports. Published reports are indicated by number in shaded areas.

Department of Energy and Mines Reports

See Figure 5 for areas covered by Precambrian geological reports.

1

Preliminary Report. The Geology of the Waddy Lake Area, Rottenstone Mining Division, Saskatchewan, by A. R. Byers, 1948. 64-D-4, -5 (parts). 36 pages, 9 figures. Geological Map 1A, 1:63,360, in pocket.

Keywords: Precambrian, Metasediments; Volcanics; Intrusive rocks; Prospecting; Pyrrhotite; Pyrite; Chalcopyrite; Sphalerite; Gold.

2

Preliminary Report of Radioactive Occurrences in the Black Lake Area, Athabaska Mining Division, Saskatchewan, by M. E. Hriskevich, 1949. 74-P (part). 31 pages, 10 figures.

Keywords: General geology; Pitchblende; Radioactive pegmatites; Allanite; Zircon; Uraninite.

3

The Geology of the Windrum Lake Area (Maribelli Lake, East Half), Saskatchewan, by M. L. Miller, 1949. 74-A-1-E. 24 pages, 8 figures. Geological Map 3A, 1:63,360, in pocket.

Keywords: Precambrian, Metasediments; Volcanics; Intrusive rocks; Gold; Sulphides

4

The Geology of the Stanley Area, Saskatchewan, by J. B. Mawdsley and F. F. Grout, 1951. 73-P-7-E. and 73-P-8-W. 31 pages, 3 plates. Geological Map 4A, 1:63,360, in pocket.

Keywords: Precambrian, Metasediments; Volcanics; Intrusive rocks; Radioactive pegmatites.

See also Miscellaneous Report 81-4, Map 4.

5

The Geology of the Charlebois Lake Area, Athabasca Mining Division, Northeastern Saskatchewan, by J. B. Mawdsley, 1950. 74-P-7 (part). 30 pages, 5 figures.

Keywords: Precambrian, Metasediments; Volcanics; Intrusive rocks; Uraninite.

6

Natural Sodium Sulphate in Saskatchewan (second edition), by R. V. Tomkins, 1954. 71 pages, 7 plates, 14 tables, 9 figures.

Keywords: Sodium sulphate; Alkali lakes.

7

Clay Resources of Saskatchewan, by W. G. Worcester, 1950. 198 pages, 18 tables, 16 plates, 3 figures, 4 text page maps.

Keywords: Cretaceous; Tertiary; Ashville Formation; Bearpaw Formation; Belly River Formation; Lea Park Formation; Pembina Formation; Riding Mountain Formation; Whitemud Formation; Brick clays/shales; Ball clays; Clay analyses.

8

Preliminary Report. The Geology of the Southern Part of the Cypress Hills, Southwestern Saskatchewan, by Loris S. Russell, 1948. 60 pages, 1 table, 7 plates, 9 sections, 1 cross section, 1 structure map.

Keywords: Stratigraphy; Palaeontology; Structure; Economic geology.

9

Annotated Bibliography of Saskatchewan Geology (1823-1970 inclusive), by W. O. Kupsch, 1973. 421 pages, 2 figures. 2 maps (indexed reference map of Saskatchewan, 1:760,320; and Geological Map of Saskatchewan, 1972 edition, 1:1,267,200) in separate container. Referenced alphabetically by author and subject indices; numerically by geographic location. Lists geological and geophysical reports, papers and maps, borehole cross sections, etc.

Keywords: Bibliography.

See following item for supplement to this publication.

9 (Supplement, 1979)

Annotated Bibliography of Saskatchewan Geology (1970-1976 inclusive), by W. O. Kupsch, 1979. 140 pages, 12 figures. Referenced alphabetically by author and subject indices; numerically by geographic location. Lists geological and geophysical reports, papers and maps, borehole cross sections, etc.

Keywords: Bibliography.

See preceding item for main publication.

10

Ordovician and Silurian Stratigraphy of East Central Saskatchewan, by W. O. Kupsch, 1952. 62 pages, 1 table, 18 figures; 1 distribution map and 2 cross sections in pocket.

Keywords: Palaeontology; Economic prospects.

11

Magnesium in Saskatchewan, by R. V. Tomkins, 1953. 23 pages, 10 tables, 1 figure.

Keywords: Sedimentary areas.

12

Bituminous Sands in Till of the Peter Pond Lake Area, Saskatchewan, by W. O. Kupsch, 1954. 32 pages, 1 table, 8 figures, location map in pocket.

Keywords: Pleistocene; Bituminous sand; Athabasca Tar Sands.

13 Out of print, superseded by Report 18.

The Jurassic Sediments of Saskatchewan, by D. R. Francis, 1954. A Preliminary Report. 24 pages, 1 table. 5 cross sections and 4 geological maps (2 at 1:1,013,760, and 2 at 1:2,027,520) in pocket.

Keywords: Correlations; Economic geology.

14
Geology and Mineral Deposits of the Amisk - Wildnest Lakes Areas, Saskatchewan, by A. R. Byers and C. D. A. Dahlstrom, 1954. 63-L-9,-16. 174 pages, 1 table, 10 plates, 14 figures. Geological Maps 14A and 14B, 1:63,360, and Structural Map 14C, 1:126,720, in pocket.
Keywords: Precambrian, Metasediments; Volcanics; Intrusive rocks; Gold; Sulphides; Tungsten; Asbestos; Radioactive pegmatites, Stereographic projection.

15
Subsurface Exploration Geology and Devonian Prospects of the Meadow Lake -Prince Albert - Yorkton Area, Saskatchewan, by D. B. MacLennan and M. Kamen-Kaye, 1954. 30 pages, 1 table, 2 plates, 1 figure. 2 structure maps and 7 cross sections in pocket.
Keywords: Oil possibilities.

16
Pumicite in Saskatchewan, by G. S. Crawford, 1955. 35 pages, 20 plates, 3 tables, 7 figures.
Keywords: Exploration; Research; Volcanic ash.

17
The Geology of the Settee Lake Area (East Half), by A. J. Budding, 1955. 73-P-16-E. 19 pages, 4 plates. Geological Map 17A, 1:63,360, in pocket.
Keywords: Precambrian, Metasediments; Volcanics; Intrusive rocks; Chalcopyrite.

18
Jurassic Stratigraphy of the Williston Basin Area, by D. R. Francis, 1956. *Supersedes Report 13.* 67 pages, 2 tables, 1 plate, 1 figure. 1 index/location map, 6 cross sections and 10 geological maps, 1:2,534,400, in pocket.
Keywords: Gypsum Spring, Piper, Rierdon, Swift, Morrison and Sundance Formations.

19
Mississippian Rocks and Oilfields in Southeastern Saskatchewan, by J. G. C. M. Fuller, 1956. 72 pages, 10 tables, 4 plates, 13 figures. 1 cross section and one map, 1:1,013,760, in pocket.
Keywords: Mesozoic; Madison Group; Williston Basin.

20
Geology of the Eastern Cypress Hills (Knollys and Dollard Quadrangles), by W. O. Kupsch, 1956. 72-F-7,-10. 30 pages, 1 table, 6 plates, 1 figure. 4 1:50,000 geological maps in pocket.
Keywords: Cretaceous; Tertiary; Bearpaw, Eastend, Whitemud, Frenchman, Ravenscrag, Cypress Hills Formations; Vertebrate remains; Lignites; Uranium.

21
Glacial Geology of the Moose Mountain Area, Saskatchewan, by E. A. Christiansen, 1956. 62-E and South quarter of 62-L. 35 pages, 1 table, 6 plates, 8 figures. Glacial geology map, 1:316,800, in pocket.
Keywords: Northwest ice movement; Weyburn lobe; Weyburn lowland.

22
Geology of the Reindeer River Area, by A. J. Budding and S. J. T. Kirkland, 1956. 63-M-11. 42 pages, 1 table, 5 plates. Geological Map 22A, 1:63,360, in pocket.
Keywords: Precambrian, Metasediments; Volcanics; Intrusive rocks; Migmatites; Prospecting recommendations.

23
Geology of the Mari Lake Area, Saskatchewan, by R. L. Cheesman, 1956. 63-M-1-E. 40 pages, 1 table, 9 plates. Geological Map 23A, 1:63,360, in pocket.
Keywords: Precambrian, Metasediments; Volcanics; Intrusive rocks; Kisseynew Gneiss; Roberts Bay Fault.

24
The Geology of the Charlebois Lake Area, Northern Saskatchewan (Map with marginal notes), by J. B. Mawdsley, 1957. 74-P-7 (part). Geological Map 24A, 1:63,360, in folder.
Keywords: Precambrian, Metasediments; Volcanics; Intrusives; Radioactive zones.

25
Correlations of Middle Devonian Rocks in Western Saskatchewan, by C. T. Walker, 1957. 59 pages, 4 figures. 3 cross sections, 4 1:2,027,520 geological maps, in pocket.
Keywords: Ashern, Winnipegosis, Dawson Bay, Lower Souris River, Meadow Lake Formations; Prairie Evaporite; Shale; Dolomitic limestone; Potash; Red Beds; Evaporites.

26
The Geology of the Middle Foster Lake Area, Northern Saskatchewan, by J. B. Mawdsley, 1957. 74-A-11-W. (part). 45 pages, 1 table, 2 figures. Geological Map 26A, 1:31,680, in pocket.
Keywords: Precambrian, Metasediments; Granitized sediments; Granodiorite intrusions; Radioactive pegmatites.

27 Out of Print
The Geology of the Manawan Lake Area, North Half, Saskatchewan, by S. J. T. Kirkland, 1957. 63-M-6-N. 22 pages. Geological Map 27A, 1:63,360, in pocket.
Keywords: Precambrian, Metasediments; Volcanics; Intrusive rocks; Migmatites; Sulphides; Radioactive pegmatites.

28
Comparison of Electromagnetic Geophysical Prospecting Methods Over Known Sulphide Zones in the Flin Flon Area, Saskatchewan, by A. R. Byers, 1957. 34 pages, 3 plates, 6 figures. 1 plan of survey, 1:4,800, in pocket.
Keywords: Point electrodes; Horizontal coils; Vertical coils.

29

An Investigation into the Geological Significance of Some Magnetic Anomalies in the Lac la Ronge Area of Northern Saskatchewan, by W. J. Pearson, 1957. 52 pages, 6 tables, 15 figures.

Keywords: Basic intrusives; Ultrabasic intrusives; Pyrrhotite; Magnetite.

30

Geology and Mineral Deposits of the Hanson Lake Area, Saskatchewan, by A. R. Byers, 1957. 63-L-10-N.W. 47 pages, 3 plates, 3 figures. Geological map 30A, 1:31,680, in pocket.

Keywords: Precambrian, Metavolcanics; Metasediments; Intrusives; Ordovician; Dolomite; Sandstone; Chalcopyrite; Sphalerite; Galena.

See also Summary of Investigations, 1976, Map 8, in Miscellanous Reports section.

31

The Geology of the Deschambault Lake Area (East Half), Saskatchewan, by S.J.T. Kirkland, 1958. 63-L-14-E. 16 pages. Geological Map 31A, 1:63,360, in pocket.

Keywords: Precambrian, Metasediments; Migmatites; Intrusives; Sulphides; Prospecting recommendations.

See also Miscellaneous Report 78-10, Map 2.

32

Glacial Geology of the Swift Current Area, Saskatchewan, by E. A. Christiansen, 1959. 72-J-W. 62 pages, 4 tables, 10 plates, 20 figures. Glacial geology map, 1:253,440, in pocket.

Keywords: Wisconsin; Tills; Silts; Clays; Loess.

33

The Geology of the Brabant Lake Area, Saskatchewan, by S. J. T. Kirkland, 1959. 64-D-4-S.W. 31 pages, 1 table. Geological Map 33A, 1:31,680, in pocket.

Keywords: Precambrian, Metasediments; Igneous rocks: Prospecting.

For geochemical report and maps of this area see Report 148.

34

The Geology of the Forbes Lake Area, Saskatchewan, by W. J. Pearson and E. Froese, 1959. 73-P-15. 28 pages, 1 table. Geological Map 34A, 1:63,360, in pocket.

Keywords: Precambrian, Metasediments; Metavolcanics; Igneous rocks; Pyrrhotite; Copper; Prospecting.

35

The Geology of the Wapus Bay Area, (West Half), Saskatchewan, by R. L. Cheesman, 1959. 64-D-9-W. 22 pages. Geological Map 35A, 1:63,360, in pocket.

Keywords: Precambrian, Metavolcanics; Metasediments; Igneous rocks; Uranium-bearing pegmatites; Molybdenite; Chalcopyrite; Pyrrhotite.

36

Mineral Occurrences in the Precambrian of Northern Saskatchewan (Excluding Radioactive Minerals), by L. S. Beck, 1959. 134 pages, 20 figures. Map 1: Mineral Occurrences in Northern Saskatchewan, 1:1,267,200; and Map 2: Mineral Occurrences in the Amisk-Hanson Lakes Area, 1:158,400, in pocket.

Keywords: Listing; Descriptions; Location maps.

37

Three Forks and Bakken Stratigraphy in West Central Saskatchewan, by Paul Kents, 1959. 39 pages, 8 figures. 1 cross section in pocket.

Keywords: Economic aspects.

38

Dawson Bay Formation in the Quill Lakes - Qu'Appelle Area, Saskatchewan, by D. M. Lane, 1959. 51 pages, 3 tables, 11 figures. 4 cross sections in pocket.

Keywords: Middle Devonian, Correlation; Oil; Gas.

39

The Geology of the Oliver Lake Area (East Half), Saskatchewan, by R. Shklanka, 1961. 64-D-14-E. 41 pages, 1 table, 6 plates, Geological Map 39A, 1:63,360, and 2 transparent overlays (magnetometric and electromagnetic) in pocket.

Keywords: Precambrian, Migmatites; Intrusive rocks; Geophysical anomalies; Sulphides.

40

The Geology of the Wapus Bay Area (East Half), Saskatchewan, by M. W. Pyke, 1960. 64-D-9-E. 32 pages, 1 table, 3 plates, 1 figure. Geological Map 40A, 1:63,360, in pocket.

Keywords: Precambrian, Metasediments; Metavolcanics; Intrusives; Migmatites; Prospecting recommendations.

41

The Geology of the Otter Lake Area (West Half), Saskatchewan, by W. A. Padgham, 1960. 73-P-10-W. 34 pages, 3 tables, 1 plate. Geological Map 41A, 1:63,360, and a mineral occurrence map, 1:63,360, in pocket.

Keywords: Precambrian, Metamorphics; Igneous rocks; Magnetic anomalies; Lead-zinc; Copper.

See also Miscellaneous Report 81-4, Map 5.

42

The Geology of the Trout Lake Area (East Half), Saskatchewan, by A. Morris, 1960. 73-P-11-E. 22 pages, 4 tables, 3 plates. Geological Maps 42A, 1:63,360, 42B, 1:12,000 and 2 overlays (magnetometric and electromagnetic), 1:12,000, in pocket.

Keywords: Precambrian, Metasediments; Igneous rocks: Geophysical anomalies; Sulphides.

43
The Geology of the Clut Lakes Area (West Half), Saskatchewan, by G. L. Colborne, 1960. 74-P-5-W. 28 pages, 5 plates, 1 figure. Geological Map 43A, 1:63,360, in pocket.
Keywords: Precambrian, Metavolcanics; Metasediments; Igneous rocks; Chalcopyrite; Pyrrhotite.

44
Geology of the Tantato Lake Area (Astrolabe Lake - East Half), Saskatchewan, by F. J. Johnston, 1960. 74-P-12-E. 32 pages, 4 plates, Geological Map 44A, 1:63,360, in pocket.
Keywords: Precambrian, Metasediments; Tuffs; Volcanics; Granite; Norite intrusives; Nickeliferous pyrrhotite - chalcopyrite.

45
Mississippian Megafaunas in Southeastern Saskatchewan, by John E. Brindle, 1960. 107 pages, 29 plates, 4 figures (one in pocket).
Keywords: Brachiopods; Corals; Age; Correlations.

46
The Evaporites of the Upper Ordovician Strata in the Northern Part of the Williston Basin, by D. M. Kent, 1960. 45 pages, 2 tables, 5 plates, 7 figures. 3 cross sections, 1 panel diagram, in pocket.
Keywords: Oil reservoirs.

47
Deadwood and Winnipeg Stratigraphy in East-Central Saskatchewan, by Douglas D. McLean, 1960. 37 pages, 13 figures. 5 cross sections in pocket.
Keywords: Economic possibilities.

48
Geology and Reservoir Characteristics of the Glen Ewen Field, Saskatchewan, by I. O. Magas, 1960. 62 pages, 11 tables, 18 figures. 3 cross sections in pocket.
Keywords: Mississippian age; Oil; Methods for well completion.

49
Helium Prospects in Southwest Saskatchewan, by H. B. Sawatzky, R. G. Agarwal and W. Wilson, 1960. 28 pages, 3 figures. 6 maps and 2 cross sections in pocket.
Keywords: Trapping mechanisms; Geophysical and geological data; 20 anomalies; Pre-Middle Devonian relief.

50
Iron Ore Occurrences, Northwestern Saskatchewan, by J. B. Mawdsley, 1960. 19 pages, 1 figure. 5 maps and 4 transparent overlays in pocket.
Keywords: 1954 airborne magnetometer surveys; Magnetite; Metamorphic; Sedimentary; Iron formations; Prospecting recommendations.

51
Correlation and Subcrops of the Mississippian Strata in Southeastern and South-Central Saskatchewan, by L. M. Fuzesy, 1960. 63 pages, 3 tables, 12 figures. 4 maps and 10 cross sections in pocket.
Keywords: Subcrop; Isopach maps; Oil producing areas and further oil possibilities.

52
The Faunas of the Lower Palaeozoic Carbonate Rocks in the Subsurface of Saskatchewan, by John E. Brindle, 1960. 45 pages, 1 table, 8 plates, 3 figures.
Keywords: Coelenterates; Brachiopods; Ordovician Bighorn Group; Silurian Interlake Group.

53
Jurassic Microfaunas from Saskatchewan, by J. H. Wall, 1960. 229 pages, 2 tables, 28 plates, 4 figures.
Keywords: Foraminifera, Ostracoda; Species restriction.

54
The Geology of the Attitti Lake Area (West Half), Saskatchewan, by M. W. Pyke, 1961. 63-M-1-W. 33 pages, 10 plates. Geological Map 54A, 1:63,360, in pocket.
Keywords: Precambrian, Kisseynew Complex; Metasediments; Volcanics; Intrusives; Migmatites; Pyrite; Chalcopyrite; Sphalerite; Gold; Silver.

55
The Geology of the Settee Lake Area (West Half), by A. Morris, 1961. 73-P-16-W. 27 pages. Geological Map 55A, 1:63,360 in pocket.
Keywords: Precambrian, Migmatized metasediments; Metavolcanics; Intrusives; Pyrrhotite; Pyrite; Chalcopyrite; Gold.

56
The Geology of the Otter Lake Area (East Half), Saskatchewan, by W. A. Padgham, 1963. 73-P-10-E. 51 pages, 10 plates, 2 figures. Geological Map 56A 1:63,360 and Aeromagnetic Map 56B (transparent overlay) in pocket.
Keywords: Precambrian, Metamorphics; Igneous rocks; Magnetic anomalies; Copper; Chalcopyrite; Pyrrhotite.
See also Miscellaneous Report 81-4, Map 4.

57
The Geology of the Deception Lake Area (East Half), Saskatchewan, by R. Shklanka, 1962. 74-A-9-E. 32 pages, 2 tables, 4 plates, 2 figures. Geological Map 57A, 1:63,360, in pocket.
Keywords: Precambrian, Metasediments; Granite; Sulphides.

58

The Geology of the Clut Lakes Area (East Half), Saskatchewan, by G. L. Colborne, 1961. 74-P-5-E. 31 pages, 8 plates. Geological Map 58A, 1:63,360, in pocket.

Keywords: Precambrian, Tazin Group; Metasediments; Granodiorite plutons; Mylonite; Gneiss; Iron sulphides; Iron-formation.

59

The Geology of the Astrolabe Lake Area (West Half), Saskatchewan by F. J. Johnston, 1961. 74-P-12-W. 26 pages, 4 plates. Geological Map 59A, 1:63,360, in pocket.

Keywords: Precambrian; Paragneiss; Granulite; Granite; Metasediments; Metavolcanics; Norite; Nickeliferous pyrrhotite-chalcopyrite.

60

The Geology of the Barnett Lake Area (West Half), Saskatchewan, by P. L. Money, 1961. 74-A-6-W. 36 pages, 6 plates. Geological Map 60A, 1:63,360, in pocket.

Keywords: Precambrian, Metasediments; Intrusives; Wollaston Lake Fold-Belt System; Pyrite; Hematite; Magnetite.

61

The Geology of the Thainka Lake Area (West Half), Saskatchewan, by F. Koster, 1961. 74-N-13-W. 28 pages, 4 plates, 3 figures. Geological Map 61A, 1:63,360, in pocket.

Keywords: Precambrian, Metasediments; Volcanics; Intrusives; Migmatites; Brecciation; Mylonization; Athabasca-Martin Lake Series; Prospecting recommendation.

62

Geology and Mineral Deposits of the Flin Flon Area, Saskatchewan, by A. R. Byers, S. J. T. Kirkland and W. J. Pearson, 1965. 63-K-12-W. (part), 63-K-13-W. (part). 95 pages, 9 figures (1 in pocket). Geological Maps 62A, 62B, 62C, 62D, 1:31,680, and Structural Map 62E, 1:126,720, in pocket.

Keywords: Precambrian, Metasediments; Volcanics; Intrusives; Base metals.

63

Interpretation of Aeromagnetic Data in West Central Saskatchewan and East Central Alberta, by R. G. Agarwal, 1960. 19 pages, 1 table, 4 figures. 3 maps: Plate 1, Aeromagnetic Map (including basement lithology); Plate 2, Theoretical Structure Map of the Precambrian Surface; Plate 3, Correlation of Magnetic Data with Known Geology. Plates 1 and 2 cover NTS Areas 73-J-W., -K,-L,-M,-N,-O-W. and 83-I,-P, and are at a scale of 1:506,880; Plate 3 covers NTS Area 73-P-15 and is at a scale of 1:63,360, in pocket.

Keywords: Precambrian, Subsurface structure and lithology; Sedimentary anomalies; Petroleum; Natural gas.

64

Deadwood and Winnipeg Stratigraphy in South-Western Saskatchewan, by W. K. Fyson, 1961. 37 pages, 6 plates, 9 figures. 3 cross sections in pocket.

Keywords: Economic possibilities.

65

The Viking Formation in Southwestern Saskatchewan, by H. L. Jones, 1961. 79 pages, 11 plates, 22 figures (19 in pocket).

Keywords: Economic possibilities.

66

Transitional Devonian-Mississippian Formations of Southern Saskatchewan, by James E. Christopher, 1961. 103 pages, 16 plates, 17 figures. 4 cross sections and one panel diagram in pocket.

Keywords: Bakken, Three Forks Formations.

67

Recession of Wisconsinan Glacier from Central Saskatchewan, by F. H. Edmunds, 1962. 23 pages, 3 tables, 9 figures.

Keywords: Glacial lakes; Topography; Surficial deposits.

68

The Geology of the Chambeuil Lake Area (West Half), Saskatchewan, by F. J. Johnston, 1962. 74-P-11-W. 32 pages, 3 plates, 4 figures. Geological Map 68A, 1:63,360, in pocket.

Keywords: Precambrian, Metasediments; Metavolcanics; Intrusives; Norite; Copper-nickel.

69

The Geology of the Wiley Lake Area (East Half), Saskatchewan, G. L. Colborne, 1962. 74-O-8-E. 44 pages, 1 table, 12 plates, 8 figures. Geological Map 69A, 1:63,360, in pocket.

Keywords: Precambrian, Tazin Group; Athabasca Sandstone; Norite; Nickel; Geophysics.

70

The Geology of the Nistowiak Lake Area (East Half), Saskatchewan, by A. Morris, 1962. 73-P-8-E. 28 pages, 5 plates. Geological Map 70A, 1:63,360, in pocket.

Keywords: Precambrian, Metasediments; Metavolcanics; Intrusives; Norite; Copper-nickel.

71

The Geology of the Thainka Lake Area (East Half), Saskatchewan, by F. Koster, 1962. 74-N-13-E. 26 pages, 4 plates, 1 figure. Geological Map 71A, 1:63,360, in pocket.

Keywords: Precambrian, Tazin Group; Martin Formation; Athabasca Sandstone.

72

The Technical and Economic Aspects of Helium Production in Saskatchewan, Canada, by H. Lee, 1962. 36 pages, 8 tables, 5 figures.

Keywords: History; North America.

73
The Stratigraphy of the Upper Devonian Saskatchewan Group of Southwestern Saskatchewan, by D. M. Kent, 1963. 51 pages, 4 plates, 8 figures. 3 cross sections in pocket.
Keywords: Duperow, Birdbear Formations; Microfossil zones; Oil; Gas.

74
The Geology of the McLean Bay Area, Saskatchewan (map with marginal notes,) by R. Shklanka, 1962. 64-E-16. Geological Map 74A, 1:63,360.
Keywords: Precambrian, Gabbro; Granite.
See also Report 206.

75
Regional Correlation of Geological and Geophysical Data in the Lake Athabasca Area, Northern Saskatchewan (Maps with accompanying notes and bibliography), by R. G. Agarwal, 1962. 64-M, 74-N,-O,-P. 4 pages. Aeromagnetic Map 75A, 1:253,440, with Geological Map 75B as a transparent overlay.
Keywords: Aeromagnetic surveys; Magnetic interpretations; Regional trends.

76
Hydrocarbon Potential of the South Regina Area, Saskatchewan, by W. Wilson, D. L. Surjik and H. B. Sawatzky, 1963. 72-A (part) and 72-H. 15 pages, 3 figures. 4 maps, 1:506,880, 3 transparent paper overlays, 1 cross section in pocket.
Keywords: Palaeozoic; Petroleum; Natural Gas; Producing fields.

77
The Geology of the Trout Lake Area (West Half), Saskatchewan, by A. Morris, 1963. 73-P-11-W. 22 pages, 6 plates. Geological Map 77A, 1:63,360, in pocket.
Keywords: Precambrian, Metamorphics; Igneous rocks; Pyrrhotite; Pyrite; Geophysical anomalies.

78
The Geology of the Guncoat Bay Area, Saskatchewan, by W. A. Padgham, 1966. 73-P-9. 143 pages, 1 table, 22 plates, 37 figures. Geological Map 78A, 1:63,360; 78B cross sections; 78C regional geological map, 1:506,880; 78D fold map, 1:15,840; 78E antiform map, 1:15,840, in pocket.
Keywords: Precambrian, Gneisses; Migmatites; Intrusives; Pyrrhotite.
See also Miscellaneous Report 81-4, Map 4.

79
The Geology of the Wiley Lake Area (West Half), Saskatchewan, by G. L. Colborne and E. Rosenberger, 1963. 74-O-8-W. 29 pages, 1 table, 7 plates, 1 figure. Geological Map 79A, 1:63,360, in pocket.
Keywords: Precambrian, Metavolcanics; Metasediments; Igneous rocks; Norite; Athabasca Formation; Nickeliferous pyrrhotite-chalcopyrite; Magnetic anomalies.

80
The Geology of the Lytle Lake Area (West Half), Saskatchewan, by F. J. Johnston, 1963. 74-P-6-W. 20 pages, 2 plates. Geological Map 80A, 1:63,360, in pocket.
Keywords: Precambrian, Black Lake Fault; Sulphides; Iron-formation; Gneiss Complex.

81
The Geology of the Harper Lake Area (North Half), Saskatchewan, by F. Koster, 1963. 74-N-12-N. 25 pages, 3 plates. Geological Map 81A, 1:63,360, in pocket.
Keywords: Precambrian, Migmatized metasediments; Magmatic granodiorites.

82
Regional Correlation of Geological and Geophysical Data in the Wollaston Lake Area, Northern Saskatchewan (Maps with accompanying notes and bibliography), by R. G. Agarwal, 1965. 64-L; 74-I,-J,-K. 4 pages. Aeromagnetic Map 82A, 1:253,440, with Geological Map 82B as a transparent overlay.
Keywords: Aeromagnetic surveys; Magnetic interpretations; Regional trends.

83 Out of print
Inventory and Outlook of Saskatchewan's Mineral Resources, 1976. 72 pages, 25 tables, 5 figures.
Keywords: Economic geology; Metallic minerals; Industrial minerals; Fossil fuels; Avonlea earthquake.

84
Use of a Digital Computer in Predicting the Depletion of Petroleum Reservoirs, by L. Brunskill, 1964. 65 pages, 4 tables, 4 figures. IBM 1410; Undersaturated and saturated reservoirs, no water entry, constant water saturation and under variable water saturation.

85 Out of Print
Dodsland Viking Sand, Primary Recovery and Pressure Maintenance Possibilities, by R. Koncohrada and L. Freitag, 1964. 35 pages, 5 tables, 13 figures. Reservoir data calculations of primary and secondary recovery. Two pilot water floods in the Viking sand.

86
The Geology of the Black Bear Island Lake Area (East Half), Saskatchewan, by A. Morris, 1965. 73-P-12-E. 24 pages, 7 plates. Geological Map 86A 1:63,360 in pocket.
Keywords: Precambrian, Metasediments; Granite; Pyrite; Pyrrhotite.

87

The Geology of the Wapawekka Narrows Area (North Half), Saskatchewan, by W. A. Padgham, 1966. 73-I-16-N. 113 pages, 24 plates, 21 figures. Geological Maps 87A 1:63,360; 87B (regional geology) 1:506,880; 87C (Lacey Lake syncline) 1:15,840, in pocket.
Keywords: Precambrian, Cretaceous; Metasediments; Metavolcanics; Soapstone; Gold; Silica sand; Manganese.

88

The Geology of the area around Needle Falls, Churchill River comprising the Eulas Lake Area (West Half), Sandfly Lake Area (East Half) and Black Bear Island Lake Area (West Half), Saskatchewan, by P.L. Money, 1965. 73-O-9-E. 73-P-12-W., -13-W. 70 pages, 3 tables, 12 plates. Geological Maps 88A and 88B, 1:63,360, in pocket.
Keywords: Precambrian, Age data.

89 Not published

90

The Geology of the Lytle Lake Area (East Half), Saskatchewan (Map and Descriptive Notes), by F. J. Johnston, 1964. 74-P-6-E. 8 pages. Geological Map 90A, 1:63,360, in pocket.
Keywords: Precambrian, Schists; Gneiss; molybdenite.

91

The Geology of the Ena Lake Area (East Half), Saskatchewan, by F. Koster, 1965. 74-N-16-E. 31 pages, 2 plates, 1 figure. Geological Map 91A, 1:63,360 in pocket.
Keywords: Precambrian, Metasediments; Granite; Radioactive mineralization; Sulphides; Migmatites.

92

Souris River Formation in Southern Saskatchewan, by D. M. Lane, 1964. 72 pages, 3 tables, 18 figures. 7 cross sections, 3 maps, 1:1,013,760, in pocket.
Keywords: Middle Devonian; Upper Devonian; Davidson Evaporite; Petroleum; Helium.

93

The Geology of the Pelican Narrows and Birch Portage Areas, Saskatchewan, by M. W. Pyke, 1966. 63-L-15 & 63-M-2-E. 68 pages, 11 tables, 14 plates, 10 figures. Geological Maps 93A & 93B, 1:63,360, and Beryl Pegmatite Deposit Map 93C, 1:8,000, in pocket.
Keywords: Precambrian, Kisseynew Group; Amisk Series; Missi Series; Beryl-bearing pegmatites.
See also Miscellaneous Reports 78-10 Map 2, and 79-10 Map 4.

94

Regional Correlation of Geological and Geophysical Data in the Cree Lake Area, Northern Saskatchewan (Maps with accompanying notes and bibliography), by R. G. Agarwal, 1965. 64-E; 74-F, -G, -H. 4 pages. Aeromagnetic Map 94A, 1:253,440, with Geological Map 94B as a transparent overlay.
Keywords: Aeromagnetic surveys; Magnetic interpretations; Regional trends.

95

The Middle Jurassic Shaunavon Formation of Southwestern Saskatchewan, by James E. Christopher, 1964. 95 pages, 9 plates, 18 figures. 6 structure maps, 1:126,720, plus 7 accompanying panel diagrams as transparent overlays, in pocket.
Keywords: Middle Jurassic; Oil; Rapdan, Dollard, and Bone Creek-Instow fields.

96

Mannville Group and Associated Lower Cretaceous Clastic Rocks in Southwestern Saskatchewan, by Ian D. Maycock, 1967. 108 pages, 1 table, 31 plates, 13 figures. 1 typical electric log expression sheet, 1 typical lithology sheet, 7 cross sections, in pocket.
Keywords: Hydrocarbon occurrences.

97

The Geology of the Nemei Lake Area (East Half), Saskatchewan, by M. W. Pyke, 1965. 63-M-8-E. and 63-N-5-W. (part). 39 pages, 5 tables, 5 plates, 3 figures. Geological Map 97A, 1:63,360, and 3 geochemical overlays (97B nickel, 97C zinc, 97D copper) on transparent paper, in pocket.
Keywords: Precambrian, Kissenew Gneiss; Prospecting; Geochemistry.

98

The Middle Devonian Winnipegosis Formation of Saskatchewan, by Llewelyn Jones, 1965. 101 pages, 20 plates, 1 figure. 11 maps, 2 panel diagrams, 1 characteristic section, 6 cross sections, in pocket.
Keywords: Petroleum; Natural Gas; Prospects.

99

The Geology of the Upper Devonian Saskatchewan Group and Equivalent Rocks in Western Saskatchewan and Adjacent Areas, by D. M. Kent, 1968. 221 pages, 8 tables, 21 plates, 3 figures. 9 maps, 2 panel diagrams, 14 cross sections, in pocket.
Keywords: Duperow, Birdbear Formations; Oil; Gas.

100

The Geology of the Hickson Lake Area (East Half), Saskatchewan, by A. J. Gracie, 1965. 74-A-8-E. 29 pages, 2 tables, 6 plates. Geological Map 100A, 1:63,360, and 3 geochemical overlays (100B nickel, 100C zinc, 100D copper) on transparent paper, in pocket.
Keywords: Precambrian, Metamorphics; Intrusives; Geochemistry; Granodiorite.

101

The Geology of the Dardier Lake Area (West Half), Saskatchewan, by F. Koster, 1965. 74-O-13-W. 45 pages, 5 plates, 1 figure. Geological Map 101A, 1:63,360, in pocket.

Keywords: Granulites; Migmatitic granite; Metasediments; Pegmatites; Mylonites; Allanite; Black Bay Fault.

102 Out of print

Regional Correlation of Geological and Geophysical Data in the Reindeer Lake Area, Northern Saskatchewan (Maps with accompanyng notes and bibliography), by R. G. Agarwal, 1968. 64-D; 74-A,-B,-C. 4 pages. Aeromagnetic 102A, 1:253,440, with Geological Map 102B as a transparent overlay.

Keywords: Aeromagnetic surveys; Magnetic interpretations; Regional trends.

103

The Geology of the Wapawekka Lake Area (North Half), Saskatchewan, by W. A. Padgham, 1967. 73-I-15-N. 57 pages, 16 plates, 6 figures. Geological Map 103A, 1:63,360, in pocket.

Keywords: Precambrian, Cretaceous; Metasediments; Metavolcanics.

104 Out of print

Geology of the Frobisher-Alida Beds, Southeastern Saskatchewan, by L. M. Fuzesy, 1966. 59 pages, 3 tables, 12 plates, 2 figures. 3 maps, 9 cross sections.

Keywords: Oil accumulation.

105

Part I - Lower Cretaceous (Middle Albian) Foraminifera From Saskatchewan; Part II - Jurassic Microfossils From a Locality in Southeastern Saskatchewan, by Paul Guliov, 1967. 61 pages, 7 plates, 8 figures.

Keywords: Joli Fou Formation; Callovian microfauna.

106

The Geology of the Kelly Lake Area, by W. G. Q. Johnston, 1968. 63-M-13. 64 pages, 3 plates, 8 figures. Geological Map 106 A, 1:63,360; transparent paper overlays of metal content of rock chip samples: 106B nickel, 106C zinc, 106D copper, in pocket.

Keywords: Precambrian, Metasediments; Metavolcanics; Intrusives; Kisseynew Gneiss; Gold; Copper; Graphite; Geochemistry.

107

The Geology of the Nemei Lake Area (West Half), Saskatchewan, by R. L. Johnson, 1966. 63-M-8-W. 23 pages, 2 tables, 1 plate, 5 figures. Geological Map 107A and Structural Map 107B, 1:63,360, in pocket.

Keywords: Precambrian, Kisseynew Gneiss; Granite.

108

The Geology of the Daly Lake Area (East Half), Saskatchewan, by P. L. Money, 1966. 74-A-12-E. 48 pages, 6 tables, 5 plates, 1 figure. Geological Map 108A, 1:63,360, in pocket.

Keywords: Precambrian, Metasediments; Intrusives; Gneiss; Daly Lake Group; Radioactive pegmatites; Geochemistry.

109

The Geology of the Nekweaga Bay Area (West Half), Saskatchewan, by Brian Chadwick, 1966. 64-E-13-W. 40 pages, 6 tables, 3 plates, 4 figures. Geological Map 109A, 1:63,360, in pocket.

Keywords: Precambrian, Migmatitic gneiss; Arkose; Granite; Athabasca Sandstone; Geochemistry.

110

The Middle Jurassic Shaunavon Formation of Southwestern Saskatchewan - Lithologic Descriptions of Selected Cored Sections, by James E. Christopher, 1966. 308 pages.

Keywords: Wells, 400.

111

The Geology of the Harper Lake Area (South Half), Saskatchewan, by F. Koster, 1967. 74-N-12-S. 37 pages, 3 plates, Geological Map 111A, 1:63,360, in pocket.

Keywords: Precambrian, Gneiss; Migmatite; Granodiorite; Mylonite; Uranium.

112 Out of print - superseded by Report 126

A Preliminary Report of the Uranium Deposits in the Athabasca Region, Saskatchewan, L. S. Beck, 1967. 16 pages, 1 table, 2 figures. Map 112A: Location Map of Uranium Deposits in the Athabasca Region, 1:506,880; Map 112B: Location Map of Uranium Deposits in the Beaverlodge Area, 1:316,800; Map 112C: Structural Elements of the Athabasca Region, 1:506,880, in pocket.

Keywords: Structural geology; Geochronology; Lists and maps; Exploration recommendations.

113

The Geology of the Maribelli Lake Area (West Half), Saskatchewan, by A. J. Gracie, 1967. 74-A-1-W. 27 pages, 2 tables, 5 plates, 1 figure. Geological Map 113A, 1:63,360, in pocket.

Keywords: Precambrian, Metasediments; Metavolcanics; Jojay Lake Formation; Diorite; Granodiorite; Pegmatite; Gold.

114
The Geology of the Deschambault Lake District comprising the Oskikebuk Lake Area, Viney Lake Area (West Half), the northern part of the Ballantyne Bay Area, and the Northeast Quarter of the Limestone Lake Area, Saskatchewan, by W. A. Padgham, 1968. 63-L-11 (part), -12(part), -13, -14-W. 92 pages, 21 plates, 7 figures. Geological Maps 114A and 114B, 1:63,360; and 114C and 114D, 1:31,680, in pocket.
Keywords: Precambrian, Metasediments; Metavolcanics; Oskikebuk, Wapaweka, Brownell Lake Groups; Missi Series; Amisk Series; Tabbernor Lake Fault; Geochemistry.
See also Summary of Investigations, 1976, Map 8, in Miscellaneous Reports section.

115 - Part I
Geology of the Stanley Area (West Half) (MacKay Lake Area), Saskatchewan, by L. H. Forsythe, 1968. 73-P-7-W. 58 pages, 4 tables, 18 plates, 5 figures. Geological Map 115A, 1:31,680; transparent paper overlays — Structure 115A-I, Lineaments 115A-II, Geochemistry (copper, nickel, zinc) 115A-III; Geological Map 115B, 1:9,600, transparent paper overlay — Lineaments 115B-I; Geological Map 115C (2 sheets), 1:9,600, transparent paper overlay — Structure and Lineaments 115C-I; Geological Map 115D (2 sheets), 1:15,840, transparent paper overlay — Structure and Lineaments 115D-I, in pocket.
Keywords: Metasediments; Metavolcanics; Migmatites; Granite; Diorite, Gabbro, Ultramafics, Geochemistry.
See also Miscellaneous Report 81-4, Map 4.

115 - Part II
The Geology of the Nemeiben Lake Area (East Half) and the Geology of Mineral Deposits in the Nemeiben Lake - Stanley Areas (73-P-6-E., 73-P-7-W.), Saskatchewan, by L. H. Forsythe, 1971. 178 pages, 5 tables, 52 plates, 71 figures (7 in pocket). Geological Map 115E, 1:31,680, Structure Map 115E-I, Lineament Map 115E-II, transparent paper overlay - Geochemistry (copper, nickel, zinc) 115E-III; Geological Map 115F, 1:4,800, Lineament Map 115F-I, Geochemical Map (copper, nickel, zinc, iron) 115F-II, in pocket.
Keywords: Precambrian, Metasediments; Granite; Mafelsic and ultramafic intrusives; Anglo-Rouyn Mine; Nickel-copper prospects.

116
The Geology of the Morell Lake Area (West Half), Saskatchewan, by Brian Chadwick, 1967. 64-E-12-W. 24 pages, 1 table, 2 plates, 1 figure. Geological Map 116A, 1:63,360, in pocket.
Keywords: Precambrian, Metasediments; Glaciation; Geochemistry.

117
The Geology of the Hanson Lake Area (East Half), Saskatchewan, by R. L. Johnson, 1967. 63-L-10-E. 19 pages, 2 tables, 4 figures. Geological Map 117A, 1:63,360, in pocket.
Keywords: Precambrian, Hudsonian Orogeny; Amisk Group; Kisseynew Gneiss; Diorite; Syenodiorites; Ordovician sandstone; Limestone; Granite; Gneisses

118
The Geology of the Nyberg Lakes Area (West Half), Saskatchewan, by R. L. Johnson, 1968. 74-G-4-W. 15 pages, 1 table, 1 figure. Geological Map 118A, 1:63,360, in pocket.
Keywords: Granodiorite gneiss; Quartz monzonite gneiss; Athabasca Formation; Virgin Schist Group.

119
The Geology of the Trade Lake Area (West Half), Saskatchewan, by A. K. Chakrabarti, 1968. 63-M-5-W. 69 pages, 16 tables, 20 plates, 13 figures. Geological Map 119A, 1:63,360, in pocket.
Keywords: Precambrian, Metasediments; Granite; Intrusives; Migmatite; Pyrite; Pyrrhotite; Chalcopyrite; Arsenopyrite; Magnetite; Geochemistry.

120
Jurassic Megafossils of Saskatchewan, With a Note on Charophytes, by D. F. Paterson, 1968. 135 pages, 25 plates, 8 figures.
Keywords: Geographic, stratigraphic distribution; Illustrations.

121
The Geology of the Zin Bay Area, Saskatchewan, by F. Koster, 1968. 74-N-14. 40 pages, 5 plates, 1 figure. Geological Map 121A, 1:63,360, in pocket.
Keywords: Precambrian, Kenoran age; Gneiss; Migmatite; Intrusives; Uranium.

122
The Geology of the Beckett Lake Area (East Half), Saskatchewan, by B. P. Scott, 1969. 74-H-8-E. 36 pages, 8 tables, 5 plates, 6 figures. Geological Map 122A, 1:63,360, in pocket.
Keywords: Precambrian, Metasediments; Daly Lake Group; Molybdenite; Geochemistry.

123
The Middle Devonian Prairie Evaporite of Saskatchewan, by M. E. Holter, 1969. 133 pages, 2 tables, 13 plates, 57 figures (42 in pocket).
Keywords: Stratigraphy; Sedimentation; Geochemistry; Mineralogy; Economic potential; Potash mineral genesis.

124
A Gravity Investigaton of the Stony Rapids Area, Northern Saskatchewan, by R. G. Agarwal and E. R. Kanasewich, 1968. Parts of 74-I,-J,-O,-P. 42 pages, 13 figures (3 in pocket).
Keywords: Economic minerals; Athabasca Sandstone; Norite body.

125

The Petrology and Economic Geology of the Upper Devonian Birdbear Formation in Southeastern Saskatchewan, by R. A. H. Nichols, 1970. 93 pages, 5 tables, 19 plates, 10 figures. 1 seismic map, 2 cross sections in pocket.
Keywords: Limestone; Dolomite; Anhydrite; Oil; Gas.

126

Uranium Deposits of the Athabasca Region, by L. S. Beck, 1969. *Supersedes Report 112.*
74-N,-O,-P. 139 pages, 16 tables, 13 plates, 38 figures. Uranium Deposits Maps 126A, 1:506,880 and 126B, 1:85,100; Geological Map 126C, 1:506,880; Structural Elements Map 126D, 1:506,880, in pocket.
Keywords: Rb-Sr age determinations; Uranium metallogenesis; Mines; Prospects; Occurrences; Prospecting.

127

The Geology of the Eastern Portion of the Waddy Lake Area, Saskatchewan, by W. G. Q. Johnston, 1969. 64-D-6-E. 43 pages, 3 plates, 3 figures. Geological Map 127A, 1:63,360; Geochemical Maps (transparent paper overlays) (soil samples) 127B nickel, 127C copper, 127D zinc; (bedrock samples) 127E nickel, 127F copper, 127G zinc, in pocket.
Keywords: Precambrian, Kisseynew Gneiss; Basic volcanics; Metasediments; Granite; Stanley Fault; Chalcopyrite; Pyrrhotite; Graphite; Geochemistry.

128 Out of print.

Reflection Seismograph Survey, Wapella Area, Saskatchewan, June, 1966, Monitor records, seismic records section, geophysical operator's report, expanded spread section, synthetic seismogram.
Keywords: Churchill, Superior provinces.

129 Out of print.

Reflection Seismograph Survey, Yorkton Area, Saskatchewan, September, 1967. Monitor records, seismic records section, geophysical operator's report, expanded spread section, location map.
Keywords: Precambrian, Palaeozoic.

130

The Geology of the May Lake Area (East Half), Saskatchewan, by W. G. Q. Johnston, 1970. 64-D-5-E. 36 pages, 4 plates, 7 figures. Geological Map 130A, 1:63,360; Geochemical Maps (transparent paper overlays) (soil samples) 130B nickel, 130C copper, 130D zinc; (bedrock samples) 130E nickel, 130F copper, 130G zinc, in pocket.
Keywords: Precambrian, Metavolcanics; Intrusives; Kisseynew Gneiss; Chalcopyrite; Pyrrhotite; Pyrite; Copper, Zinc, Geochemistry.

131

The Geology of the Burchnall Lake Area, Saskatchewan, by F. Koster, 1970. 74-N-15. 24 pages, 3 plates, 4 figures. Geological Map 131A, 1:63,360, in pocket.
Keywords: Precambrian, Kenoran; Granodiorite-diorite; Paragneiss Series; Martin Formation; Granulite, amphibolite facies; Radioactive anomalies.

132

The Geology of the Dufferin Lake Area (West Half), Saskatchewan, by R. H. Wallis, 1970. 74-G-5-W. 59 pages, 6 tables, 8 plates, 7 figures. Geological Map 132A, 1:63,360, in pocket.
Keywords: Precambrian, Metasediments; Granitic gneiss; Amphibolite; Athabasca Formation; Virgin Schist Group; Pyrite; Pyrrhotite; Chalcopyrite; Arsenopyrite; Magnetite; Graphite.

133

Geology and Petroleum Accumulations of the North Hoosier Area, West Central Saskatchewan, by W. I. White, 1969. 37 pages, 21 figures. 4 cross-sections in pocket.
Keywords: Bakken, Viking Formation; Petroleum reservoirs and prospects.

134

The Geology of the Trade Lake Area (East Half), Saskatchewan, by A. K. Chakrabarti, 1969. 63-M-5-E. 31 pages, 17 tables, 20 plates. Geological Map 134A, 1:63,360, in pocket.
Keywords: Precambrian, Metasediments; Metavolcanics; Intrusives.
See also Summary of Investigations, 1976, Map 8, in Miscellaneous Reports section.

135

The Geology of the Combe Lake Area, Saskatchewan, B. P. Scott, 1970. 64-E-5. 32 pages, 15 tables, 7 plates, 12 figures. Geological Map 135A, 1:63,360, and a compilation (by B. P. Scott and R. H. Wallis) geological map, 1:126,720, of all or parts of 64-E-5,-12,-13, 64-L-3,-4, 74-H-8,-9, in pocket.
Keywords: Precambrian, Metasediments; Volcanics; Granite; Wollaston Lake Fold-Belt System; Lead-zinc.

136

The Geology of the Clam Lake Area (West Half), Saskatchewan, by L. H. Forsythe, 1971. 73-P-5-W. 15 pages, 2 tables, 5 plates, 3 figures. Geological Map 136A, 1:63,360; Structural Trend, Fold Map 136B; Fault, Lineament Map 136C; Foliation Map 136D, in pocket.
Keywords: Precambrian, Metasediments; Granite; Pyrite; Pyrrhotite; Graphite.

137

The Geology of the Hidden Bay Area, Saskatchewan, by R. H. Wallis, 1971. 64-L-3 (part), and 64-L-4. 74 pages, 11 tables, 12 plates, 18 figures. Geological Map 137A, 1:63,360, and a compilation (by B. P. Scott and R. H. Wallis) geological map, 1:126,720, of all or parts of 64-E-5,-12,-13, 64-L-3,-4, 74-H-8,-9 in pocket.
Keywords: Precambrian, Metasediments; Granite; Athabasca Formation; Sulphides; Uranium.

138

The Geology of the Clam Lake Area (East Half), Saskatchewan, by L. H. Forsythe, 1972. 73-P-4-E. (part), and 73-P-5-E. 21 pages, 1 table, 15 plates, 2 figures. Geological Map 138A, 1:63,360; and Structural Trend, Fold Map 138B; Fault, Lineament Map 138C; Foliation Map 138D, in pocket.
Keywords: Precambrian, Migmatites; Granite; Intrusives; Gneiss; Nickel; Copper.

139

Well Data and Lithologic Descriptions of the Interlake Group (Silurian) in Southern Saskatchewan, by Esther R. Jamieson, 1979. 67 pages, 2 tables, 2 figures.
Keywords: Silurian; Interlake Group; Well data; Lithologic descriptions; Core descriptions.

140

The Stratigraphy of the Winnipeg Formation (Ordovician) of Saskatchewan, by D. F. Paterson, 1971. 57 pages, 5 plates, 7 figures. 1 cross section in pocket.
Keywords: Ordovician; Winnipeg Formation; Black Island Member; Quartzose sandstone; Upper Icebox Member; Shale; Argillaceous quartzose sandstone; Williston Basin.

141

A Stratigraphic and Sedimentologic Analysis of the Mississippian Madison Formation in Southwestern Saskatchewan, by D. M. Kent, 1974. 85 pages, 2 tables, 16 plates, 13 figures. 3 cross sections, 1 panel diagram, in pocket.
Keywords: Mississippian; Madison Formation; Strathallen, Kildeer Beds; Hydrocarbon potential; Carbonates; Mudstone; Sandstone.

142

The Geology of the Ena Lake Area (West Half), Saskatchewan, by T. H. de Zoysa, 1974. 74-N-16-W. 26 pages, 1 table, 3 plates, 7 figures. Geological Map 142A, 1:63,360, in pocket.
Keywords: Precambrian, Metasediments; Volcanics; Intrusives; Pyrite; Chalcopyrite; Pyrrhotite; Fluorite; Copper; Lead; Nickel; Radioactivity.

143

The Geology of the Glennie Lake Area, by J. F. Lewry, 1977. 63-M-12. 59 pages, 1 table, 57 plates, 2 figures. Geological Map 143A, 1:63,360, and (on transparent paper overlays) Structural Geology Map 143B; Geomorphology Map 143C, in pocket.
Keywords: Precambrian, Areal geology; Batholitic complexes; Metamorphosed volcanics; Metasediments.

144

The Geology of the Charcoal Lake Area, Saskatchewan, by B. P. Scott, 1972. 64-L-16. 35 pages, 10 tables, 12 plates, 6 figures. Geological Map 144A, 1:63,360, in pocket.
Keywords: Precambrian, Charnockite; Felsic gneiss; Intrusives; Migmatite; Daly Lake Group; Granulite facies; Chalcopyrite; Pyrrhotite.

145 **Not published.**

See Open Files, Provincial, OF82-4.

146

The Geology of the Hara Lake Area, Saskatchewan, by M. Allan Kays, 1972. 64-M-1. 37 pages, 7 tables, 6 plates, 15 figures. Geological Map 146A, 1:63,360, in pocket.
Keywords: Precambrian, Metasediments; Metavolcanics; Granite; Gneiss; Cordierite-granulite facies; Geochemistry; Wollaston Lake Fold-Belt System.

147

The Geology of the Wapawekka Area, Saskatchewan, by Fred F. Langford, 1973. 73-I. 36 pages. 16 plates, 3 figures. Geological Map 147A, 1:250,000, in pocket.
Keywords: Precambrian, Palaeozoic; Cretaceous; Pleistocene; Swan River Sandstone; Shale; Till; Glacial deposits; Glacial Lake Agassiz; Silica sand; Kaolin; Groundwater; Sand; Gravel; Bentonite; Coal; Manganese.

148

Base Metal Geochemistry, Brabant Lake Area, Saskatchewan, by W. G. Q. Johnston, 1972. 64-D-4-S.W. 27 pages, 17 tables, 10 figures (2 in pocket). Geochemical Maps (on transparent paper), 1:31,680, of bedrock specimens, 148A iron, 148B nickel, 148C copper, 148D zinc, 148E lead, in pocket.
Keywords: Precambrian, Kissenew Gneiss; Iron; Nickel; Copper; Zinc; Lead.
For geological report and map of this area see Report 33.

149

The Geology of the May Lake Area (Northwest Quarter), Saskatchewan, by W. G. Q. Johnston, 1973. 64-D-5-N.W. 43 pages, 19 tables, 9 plates, 15 figures. Geological Map 149A, 1:63,360; (on transparent paper overlays) 149B Glacial Geology, 149C Structural Geology, (geochemical soil samples) 149D cobalt, 149E nickel, 149F copper, 149G zinc, 149H lead, 149J sample locations and composite analyses, in pocket.
Keywords: Precambrian; Metasediments; Volcanics; Ultramafics; Granite; Pyrrhotite; Pyrite; Graphite; Gold; Asbestos; Copper; Nickel; Glaciation; Geochemistry; Prospecting recommendations.

150

Sedimentology, Palaeoecology and Economic Geology of Lower Colorado (Cretaceous) Strata of West-Central Saskatchewan, by Frank Simpson, 1982. 183 pages, 6 tables, 25 plates, 40 figures.
Keywords: Saskatchewan; Cretaceous; Stratigraphy; Sedimentary.

151

The Upper Jurassic Vanguard and Lower Cretaceous Mannville Groups of Southwestern Saskatchewan, by J. E. Christopher, 1974. 349 pages, 51 figures. 4 cross sections in pocket.
Keywords: Rush Lake, Masefield, Swift Shales; Roseray, Rierdon, Success, Cantuar, Pense Formations; Dimmock Creek, Atlas Creek, McCloud Members; Hydrology; Oil reservoirs; Hydrocarbon potential.

152

The Geology of the Nemeiben Lake Area (West Half) and the La Ronge Area (West Half), Saskatchewan, by L. H. Forsythe, 1976. 73-P-3-W.,-6-W. 18 pages, 7 plates, 3 figures (2 in pocket). Geological Maps 152A, 152F, 1:63,360; Structural Trend Fold Maps 152B, 152G; Fault, Lineament Maps 152C, 152H; Secondary Foliation Maps 152D, 152I; Supplementary detailed Geological Map 152E, 1:9,600, in pocket.
Keywords: Precambrian; Metasediments; Metavolcanics; Mylonite; Granitic gneiss; Amphibolite facies; Pyrite; Chalcopyrite; Pyrrhotite; Nickel; Magnetite; Elizabeth Lake prospect; Anglo-Rouyn Mine; Economic geology.

153

The Geology of the Milton Island Area (West Half), Saskatchewan, by T. I. I. Sibbald, 1977. 64-D-10-W. 38 pages, 2 tables, 24 plates, 5 figures. Geological Map 153A, 1:63,360, in pocket.
Keywords: Precambrian; Metasediments; Metavolcanics; Ultramafic intrusives; Amphibolite facies; Pyrite; Pyrrhotite; Asbestos; Economic geology.

154

The Geology of the Pendleton Lake Area (West Half), Saskatchewan, by B. P. Scott, 1973. 74-A-15-W. 58 pages, 15 tables, 12 plates, 20 figures. Geological Map 154A, 1:63,360; Geological Map 154B, 1:1,200, (with two transparent paper overlays), copper in bedrock, copper in B soil horizon, in pocket.
Keywords: Precambrian; Metasediments; Migmatite; Granite; Wollaston Lake Fold-Belt System; Sandfly Lake, Meyers Lake, Daly Lake Groups; Geochemistry; Chalcopyrite; Chalcocite; Native copper; Galena; Economic geology.

155

The Geology of the Dutton Lake Area (East Half), Saskatchewan, by R. J. C. Munday, 1973. 64-M-9-E. 22 pages, 4 tables, 14 plates, 10 figures. Geological Map 155A, 1:63,360, in pocket.
Keywords: Precambrian; Metasediments; Migmatite; Granite; Many Islands Belt; Hurwitz Group; Chalcopyrite; Economic potential.

156

The Geology of the Scimitar Lake Area (East Half), Saskatchewan, by D. E. Pearson, 1973. 63-M-15-E. 17 pages, 15 plates, 8 figures. Geological Maps 156A, 1:63,360, 156B, 1:7,200, in pocket.
Keywords: Precambrian; Metasediments; Metavolcanics; Amphibolite; Chalcopyrite; Economic potential.

157

Hydrocarbon Potential of Saskatchewan, by J. E. Christopher, D. M. Kent and F. Simpson, 1971. 47 pages, 2 tables, 33 figures.
Keywords: Mississippian reservoirs; Silurian, Mesozoic prospects.

158

Geological Investigations in the Pasquia Hills Area, by L. S. Beck, 1974. Parts of 63-C,-D,-E,-F. 16 pages, 6 tables, 16 plates, 3 figures. Geological Map 158A, 1:250,000, in pocket.
Keywords: Cretaceous; Tertiary; Blairmore, Favel, Vermilion River, Riding Mountain Formations; Colorado Group; Hydrocarbons; Silica sand; Cement rock; Manganese; Uranium.

159 Not published

160

Lithologic Descriptions of Selected Cored Sections from the Lower Colorado Group (Cretaceous) of West-Central Saskatchewan, by F. Simpson, 1979. 121 pages, 1 table, 2 figures.
Keywords: Cretaceous; Lower Colorado Group; Lithologic descriptions; Core descriptions; Cross sections, stratigraphic; Correlation charts.

161

Biostratigraphy and Microfaunas of the Jurassic System of Saskatchewan, by Margaret M. Brooke, and W. K. Braun, 1972. 83 pages, 26 plates, 9 figures. 23 charts in pocket. (N.B.: This report also covers the Zortman Butte, Montana, U.S.A.).
Keywords: Shaunavon, Vanguard, Gravelbourg, Watrous, Morrison, Swift, Rierdon, Sawtooth Formations; Ostracoda; Foraminifera; Charophyta.

162

The Saskatchewan Government Computerized Well Information System, by John V. Buller, 1972. 125 pages, 18 figures.
Keywords: "Tellus" information retrieval programme.

163

The Geology of the Mississippian Ratcliffe Beds in South-Central Saskatchewan, by L. M. Fuzesy, 1973. 63 pages, 1 table, 11 plates, 1 figure. 1 structure map, 4 cross sections in pocket.
Keywords: Midale, Oungre Evaporites; Ratcliffe Beds; Limestone; Dolomite; Stylolite; Structure; Hydrocarbons; Economic potential.

164

Computer Plotted Isopach and Structure Maps of the Devonian Formations in Saskatchewan, by D. F. Paterson, 1973. 15 pages, 1 table. 9 isopach maps, 9 structure maps, 1:1,013,760, in container. One isopach and one structure map for each of the following formations: Big Valley; Torquay; Birdbear; Duperow; Souris River; Dawson Bay; Prairie Evaporite; Winnipegosis and Ashern.

Keywords: Devonian; Big Valley, Torquay, Birdbear, Duperow, Souris River, Dawson Bay, Winnipegosis, Ashern Formations. Evaporite.

165

Computer Plotted Isopach and Structure Maps of the Lower Palaeozoic Formations in Saskatchewan, by D. F. Paterson, 1975. 15 pages, 1 table. 9 isopach maps, 10 structure maps, 1:1,013,760, in container. One isopach and one structure map for each of the following: Interlake Group; Upper Interlake Beds; Middle Interlake Beds; Lower Interlake Beds; Stonewall Formation; Stony Mountain Formation; Red River Formation; Winnipeg Formation and Deadwood Formation. One structure map of the Precambrian.

Keywords: Precambrian; Deadwood; Winnipeg, Red River, Stony Mountain, Stonewall Formations; Interlake Beds; Interlake Group.

166

The Geology of the Mudjatik Area (Southwest Quarter), Saskatchewan, by D. E. Pearson, 1977. 74-B-S.W. 31 pages, 13 plates, 9 figures. Geological Map 166A, 1:100,000, in pocket.

Keywords: Precambrian; Metasediments; Gneiss; Granulite facies; Pyrite; Pyrrhotite; Magnetite; Graphite; Galena; Uranium; Economic geology.

167

The Geology of an area East of Thluicho Lake, Saskatchewan (Part of NTS Area 74-N-11), by Blaine P. Scott, 1978. 51 pages, 6 appendices, 18 figures, 11 plates, Geological Maps 167A, 1:31,680; 167B and 167C, 1:2,400; and 7 1:2,400 geochemical maps (copper in rock chips, copper in soil samples) in pocket.

Keywords: Precambrian; Tazin Group; Thluicho Lake Group; Athabasca Formation; Ellis Bay Formation; Martin Formation; Structural Geology; Radiometric dates; Soil geochemistry; Rock geochemistry; Base metal geochemistry; Exploration history; Economic geology; Copper.

168

The Geology of the Mudjatik (East) Area, Saskatchewan, by Robert J. C. Munday, 1977. 74-B-E. 25 pages, 2 tables, 21 plates, 4 figures. Geological Maps 168A and 168B, 1:100,000, in pocket.

Keywords: Precambrian; Areal mapping; Mudjatik Domain; Gneiss domes.

169

The Geology of the Hewetson Lake Area (West Half), Saskatchewan, by Tsu-Min Fuh, 1976. 74-A-4-W. 27 pages, 1 table, 5 plates. Geological Map 169A, 1:63,360, in pocket.

Keywords: Precambrian; Metasediments; Granite gneiss; Intrusives; Greenschist, amphibolite facies; Pyrite; Pyrrhotite; Sphalerite; Galena; Economic geology; Computer-based data processing technique.

170

The Geology of the Sandy Narrows (East) Area, Saskatchewan (NTS Area 63-M-3-E.), by T. I. I. Sibbald, 1978. 49 pages, 7 tables, 9 figures, 26 plates. Geological Map 170A, 1:63,360 plus 3 transparent paper overlays of metal concentration (170B copper, 170C zinc, 170D nickel) in lake and stream sediments, in pocket.

Keywords: Precambrian; Metamorphism; Structural geology; Lake sediment geochemistry; Base metal geochemistry; Economic geology; Copper.

See also Miscellaneous Report 78-10, Map 2.

171 Not published.

172

The Geology of the Marchel-Wintego-Sandy Bay Area, Saskatchewan, by S. J. T. Kirkland, 1976. 63-M-7,-9,-10 and part 63-N-12. 12 pages, 3 figures. Geological Map 172A, 1:100,000, in pocket.

Keywords: Precambrian; Pelite; Psammite; Granitic, mafic gneisses; Kisseynew Gneiss; Nokomis Group; Sherridon Group; Pyrite; Pyrrhotite; Chalcopyrite; Uranium; Thorium; Economic geology.

173

The Geology of the Pylypow Lake Area (West Half), Saskatchewan, by L. H. Forsythe, 1977. 74-A-5-W. 35 pages, 4 tables, 9 plates, 1 figure (in pocket). Geological Map 173A, 1:63,360, Structural Trend-fold Map 173B, Fault and Lineament Map 173C, in pocket.

Keywords: Precambrian; Areal mapping; Wollaston Fold Belt; Daly Lake, Sandfly Lake, La Ronge Groups; Pederson Lake Complex; Archean; Aphebian; Uraninite; Copper; Lead, Zinc.

174

The Geology of the Pylypow Lake Area (East Half), Saskatchewan, by Tsu-Min Fuh, 1976. 74-A-5-E. 12 pages, 1 table, 2 plates. Geological Map 174A, 1:63,360, in pocket.

Keywords: Precambrian; Metasediments; Granite; Gneiss; Intrusives; Greenschist, amphibolite, granulite facies; Pyrite; Chalcopyrite; Sphalerite; Economic potential.

175

The Geology of the Manawan Lake Area (South Half), Saskatchewan, by S. J. T. Kirkland, 1976. 63-M-6-S. 24 pages, 1 table, 6 plates. Geological Map 175A, 1:63,360, in pocket.

Keywords: Precambrian; Metasediments; Metavolcanics; Intrusives; Kisseynew Gneiss; Wood Lake Batholith; Tabbernor Lake Fault; Copper; Nickel; Gold; Pyrite; Pyrrhotite; Uranium; Economic geology.

176 Not published.

177

Subsurface Waste-Disposal Potential of Saskatchewan, by F. Simpson and E. G. Dennison, 1975. 76 pages, 20 tables, 35 figures.

Keywords: Williston Basin; Sandstone and carbonate aquifers.

178 Not published.

179

The Upper Devonian Duperow Formation in Southeastern Saskatchewan, by Colin E. Dunn, 1975. 149 pages, 4 tables, 19 plates, 26 figures (7 in pocket).

Keywords: Carbonates; Evaporites; Flat Lake Evaporite; Williston Basin; Isopachs; Structure contours; Cross sections; Groundwater chemistry; Hydrocarbon potential.

180

The Ordovician Carbonate Succession (Bighorn Group) of Southeastern Saskatchewan, by A. C. Kendall, 1976. 185 pages, 34 plates, 28 figures.

Keywords: Yeoman, Herald, Stony Mountain, Stonewall Formations; Williston Basin; Cross sections; Anhydritization; Dolomitization; Hydrocarbon potential.

181

Potash in Saskatchewan, by Anne Fuzesy, 1982. 44 pages, 4 tables, 20 figures.

Keywords: Potash, Mines, Devonian, Economic Geology.

182 Not published.

183

The Geology of the Dipper Lake Area (NTS 73-O-14), Saskatchewan, by B. P. Scott, 1977. 19 pages, 2 tables, 5 plates, 4 figures. Geological Map 183A, 1:63,360, in pocket.

Keywords: Precambrian; Areal mapping; Daly Lake Group; Dipper Lake Complex; Archean; Aphebian; Molybdenite; Chalcopyrite.

184 Not published.

185

Geology of part of the Foster Lake (South)-La Ronge (Northwest) Area, NTS Areas 73P-13E, 14 and 74A-2,3,4E, by G. E. Ray, 1981. 31 pages, 9 tables, 11 figures. Geological Map 185A, 1:100,000, in pocket.

Keywords: Precambrian; Wollaston Group; La Ronge Domain; Rottenstone Domain; Wollaston Domain; Lake sediment geochemistry; Trace element geochemistry.

186

Geology of the Maynard Lake-Sandy Narrows (West) Area (NTS Area 63M-4 and 63M-3W), by Blaine P. Scott, 1981. 26 pages, 10 plates, 3 tables, 11 figures. Geological Map 186A, 1:63,360, in pocket.

Keywords: Precambrian; NTS 63-M-4, 63-M-3-W; Older granitic gneiss and supracrustal bands; Younger intrusive granite and diorite; Isoclinal east-trending folds; Brownell Lake sphalerite-chalcopyrite showing; Vincent Lake muscovitic granite; Beryl pegmatite; Deschambault Lake Synform; Tabbernor Lake Fault.

187

Geology of the Gilbert Lake West Area (NTS Area 63M-15W), by Tsu-Min Fuh, 1979. 17 pages, 8 tables, 5 plates, 2 figures. Geological Map 187A, 1:63,360, in pocket.

Keywords: Precambrian; Gneisses; Ultramafic rocks; Pegmatites; Modal analyses; Sulphides.

188 Not published.

189

The Shield Geology of the Ile-a-la-Crosse (East) Area, Saskatchewan (Part of NTS Area 73-0), by Robert J. Munday, 1978. 73-0-7,-8,-9,-10,-15,-16. 27 pages, 4 tables, 13 plates, 2 figures. Geological Map 189A (2 sheets), 1:100,000, in pocket.

Keywords: Precambrian; Mudjatik Domain; Needle Falls Shear Zone; Wollaston Lake Fold Belt; Radioactive conglomerates; Fluorite; Chalcopyrite.

190

Geology of the Parker Lake-Nelson Lake Vicinity, Parts of NTS Areas 74A and 74-H, by G. E. Ray, 1978. 74-A-15-E.,-16; 74-H-1,-2. 40 pages, 3 tables, 8 plates, 4 figures. Geological Map 190A, 1:100,000, in pocket.

Keywords: Precambrian; Quaternary; Peter Lake Domain; Rottenstone Domain; Wollaston Domain; Structural geology; Radiometric dates; Radiometric anomalies.

191

Geology of the Area around Amiskit Island, Reindeer Lake, Part of NTS Area 64D-N.E., by M. R. Stauffer, F. F. Langford, L. C. Coleman and D. J. Mossman, 1979. 64-D-10-E.,-15,-16. 21 pages, 1 table, 9 plates, 5 figures. Geological Map 191A, 1:100,000, in pocket.

Keywords: Precambrian; Metasediments; Intrusive rocks; Structural geology.

192

Geology of an Area around Ghana Lake, Part of NTS Area 64D-NW, by J. F. Lewry, A. Curry and K. Roberts, 1980. 64-D-11,-12,-13-W.,-14-W. 29 pages, 2 tables, 2 figures. Geological Map 192A, 1:100,000, and Structural Overlay 192B (on transparent paper), in pocket.

Keywords: Precambrian; Central Intrusive Complex; Davin Lake Complex; Ghana Lake Pluton; Hetherington Lake Pluton; Wathaman Batholith; Structural geology; Uraniferous pegmatites; Sulphides.

193

Geology of an Area around Rottenstone and Dobbin Lakes (Part of NTS Area 74A), by C. F. Gilboy, 1982. 74-A-6-E.,-7,-8-W.,-9-W.,-10,-11-E. 68 pages, 57 tables, 26 figures, 5 appendices. Geological Map 193A, 1:100,000, in pocket.

Keywords: NTS 74A; Precambrian; Archean basement; Aphebian metasediments; Wollaston Domain: Rottenstone Domain; La Ronge Domain; Wathaman Batholith; Hickson Lake Batholith; Hudsonian Orogeny; Needle Falls Shear Zone; Diabase dykes; Meteorite crater; Petrography; Geochemical analyses; Geochronology; Economic assessment.

194

Geology of the Middle Devonian Dawson Bay Formation in the Saskatoon Potash Mining District, Saskatchewan, by Colin E. Dunn, 1982. 117 pages, 21 plates, 5 tables, 17 figures (10 in pocket).

Keywords: Central Saskatchewan; Middle Devonian; Givetian; Dawson Bay Formation; Prairie Evaporite; Potash; Carbonates; Stratigraphy; Sedimentology; Diagenesis; Depositional environment; Structure; Rock mechanics; Palaeontology; Geochemistry; Formation waters.

195 Not published.

196

Geology of the Laird Lake (West) Area, NTS Area 63M-14(W), by Blaine P. Scott, 1982. 10 pages, 2 tables, 2 plates, 6 figures. Geological Map 196A, 1:31,680, in pocket.

Keywords: Precambrian; NTS 63M-14W; Narrow supracrustal bands; Remobilized tonalite gneiss; Isoclinal north-trending folds; Tabbernor Lake Fault.

197

The Geology of the Highrock Lake-Key Lake Vicinity, Saskatchewan, by Gerald E. Ray, 1977. 74-A-13,-14, 74-H-3,-4. 36 pages, 7 tables, 8 plates, 8 figures. Geological Map 197A, 1:100,000, in pocket.

Keywords: Precambrian; Quaternary; Wollaston Group; Granulite facies; Greenschist facies; Athabasca Formation; Diapirs; Lake sediment geochemistry; Trace element geochemistry; Uranium; Nickel; Molybdenum; Titanium; Iron.

198

Geology of the Reindeer Lake South (Southeast) Area, NTS Area 64D-SE, by C. F. Gilboy, 1980. 62 pages, 30 tables, 3 plates, 20 figures. Geological Map 198A, 1:100,000, in pocket.

Keywords: Precambrian; Quaternary; Burntwood River Supergroup; Sickle Group; Metasediments; Cree Lake Moraine; Deep Bay Crater; Rock geochemistry; Modal analysis; Exploration history.

199

Geology of the Area around Spalding Lake, Part of NTS Area 64E-SW, by John F. Lewry, Keith Roberts and Christopher J. Rees, 1980. 64-E-3,-4,-6. 18 pages, 1 table, 2 figures. Geological Map 199A, 1:100,000, in pocket.

Keywords: Precambrian; Athabasca Formation; Campbell River Supracrustal Belt; Parker Lake Gneisses; Peter Lake Complex; Wathaman Batholith; Structural geology.

200

Geology of the Reindeer Lake North (Southeast) Area, NTS Area 64E-SE, by M. R. Stauffer, F. F. Langford, L. C. Coleman and D. Mossman, 1980. 21 pages, 2 tables, 5 plates, 6 figures. Geological Map 200A, 1:100,000, in pocket.

Keywords: Precambrian; Wathaman Batholith; Sulphides.

201

The Sedimentary Geology of the La Loche Area, Saskatchewan, NTS Sheet 74C, by D. F. Paterson, A. C. Kendall and J. E. Christopher, 1978. 38 pages, 2 tables, 15 plates, 13 figures. Geological Map 201A (with two sections included on the sheet), 1:250,000, in pocket.

Keywords: Devonian; Cretaceous; Mannville Group; Surficial geology; Lake sediment geochemistry; Stream sediment geochemistry; Base metal geochemistry; Cross sections, stratigraphic; Isopach maps; Structure contour maps; Well date.

202 Not published.

203 Not published.

204

Geology of part of the Geikie River (East) Area, Part of NTS Area 74H (East), by L. H. Forsythe, 1980. 74-H-6-E.,-7,-8-W.,-9,-10, (part),-16 (part). 12 pages, 4 tables. Geological Map 204A, 1:100,000, in pocket.

Keywords: Precambrian; Athabasca Group; Wollaston Lake Fold Belt; Modal analyses; Titaniferous magnetite; Uranium; Nickel; Molybdenite; Graphite; Pyrite.

205

Geology of an Area around Compulsion Bay, Wollaston Lake, Part of NTS Area 64E-NW, by John F. Lewry, David J. Thomas, Christopher J. Rees and Keith Roberts, 1981. 64-E-11,-12-E.,-13-E.,-14. 27 pages, 2 tables, 5 figures. Geological Map 205A, 1:100,000, in pocket.

Keywords: Precambrian; Peter Lake Complex; Wollaston Domain; sulphides.

206
Geology of the Ballentin Island Vicinity, Reindeer Lake (Part of NTS Area 64E), by M. R. Stauffer, S. L. Fumerton, L. C. Coleman, D. Mossman and F. F. Langford, 1981. 64-E-9,-10(part),-15(part),-16. 21 pages, 1 table, 5 plates, 5 figures. Geological Map 206A, 1:100,000, in pocket.
Keywords: Precambrian; Northern Saskatchewan; Rottenstone Domain; Wathaman Batholith; Peter Lake Complex; Parker Lake Shear Zone.
See also Report 74.

207
Geology of the Pagato River Area (NTS Area 63M-16), by Tsu-Min Fuh, 1979. 63-M-16 and part 63-N-13-W. 16 pages, 3 tables, 10 plates. Geological map 207A, 1:63,360 in pocket.
Keywords: Precambrian; Metasediments; Granitic rocks; Structural geology; Radioactive pegmatites; Pyrite.

208
Bedrock Geology and Geochemistry, Daly Lake (West) Area and Part of Middle Foster Lake Area, by G. E. Ray, 1981. 74-A-11-W.(part),-12-W.,-12-E.(part). 33 pages, 16 tables, 10 figures. Geological Map 208A, 1:63,360, in pocket.
Keywords: Precambrian; Wollaston Group; Wollaston Domain; Rock geochemistry; Trace element geochemistry; Radioactive pegmatites; Electromagnetic conductors; Uraninite; Gummite; Pyrite; Pyrrhotite; Molybdenite.

209
Coal Resources of Southern Saskatchewan: A Model for Evaluation Methodology, by J. A. Irvine, S. H. Whitaker and P. L. Broughton, 1978. A joint release by the Saskatchewan Research Council (Report 20), the Geological Survey of Canada (Economic Geology Report 30) and the Saskatchewan Geological Survey (Report 209). Report is a combination of two parts — the parts are not available separately.
Part I - Text, 151 pages, 39 tables, 108 figures;
Part II - Atlas (38 × 56 cm), 56 plates.
Keywords: Paleocene; Ravenscrag Formation; Estevan coalfield; Willow Bunch coalfield; Overburden isopach maps; Net coal isopach maps; Structure contour maps; Cross section, structural.
See also Open Files, Provincial OF 82-5 which complements this report.

210
Geology of the Deadwood (Cambrian), Meadow Lake and Winnipegosis (Devonian) Formations in West-Central Saskatchewan, by L. M. Fuzesy, 1980. 64 pages, 1 table, 3 plates, 12 figures.
Keywords: Cambrian; Devonian; Deadwood Formation; Meadow Lake Formation; Winnipegosis Formation; Meadow Lake Escarpment; Base metal geochemistry; Analyses; Limestone commodity; Well data; Cross sections, stratigraphic; Isopach maps; Structure contour maps.

211
Wollaston Lake, NTS Area 64L. Compilation Bedrock Geology Map Series, First Edition, 1983. 1:250,000 scale. Compiled by M. W. Thomas. Geological map with marginal notes and references, in folder.
See also Precambrian Data File DF 2

212 Not published.

213 Not published.

214
Geology of the Carswell Structure, Central Part, by C. T. Harper, 1982. Parts of NTS Areas 74K-5,-6,-11,-12. 6 pages. Geological Map 214A, 1:50,000, in pocket.
Keywords: Precambrian; Northern Saskatchewan; Uranium deposits; Geology; Cluff Breccia; Meteorite impact structure.
See also Report 224.

215
Petroleum Geology of the Mississippian Midale Beds, Benson Oil Field, Southeastern Saskatchewan, by S. R. Smith, 1980. 98 pages, 2 tables, 8 plates, 19 figures (2 figures in pocket).
Keywords: Mississippian; Midale Beds; Benson oilfield; Reservoir rocks; Petroleum.

216A
Seismic Investigations on the Perimeter of the Athabasca Basin in Northern Saskatchewan (Key Lake-Ryan Lake areas), NTS 74H (part), by J. V. Suryam, 1981. 42 pages, 2 tables, 9 figures, 64 profiles.
Keywords: Seismic surveys; Athabasca Basin; Athabasca Formation; Unconformities; Basement structure; Uranium exploration.

216B
Seismic Investigations on the Perimeter of the Athabasca Basin in Northern Saskatchewan (Wollaston Lake-Black Lake Areas), NTS 64L (part) and 74P (part), by J.V. Suryam, 1984. 38 pages, 2 tables, 2 figures, 27 profiles. 2 maps showing locations of seismic profiles in pocket.
Keywords: Athabasca Basin, Uranium Exploration Seismic Surveys.

216C Not published.

216D Not published.

217 Not published.

218 Not published.

219 Not published.

220
Iron Ores of Northern Saskatchewan, by C. T. Harper, 1983. 102 pages, 23 tables, 30 figures (2 in pocket), 20 plates.
Keywords: Precambrian; Northern Saskatchewan; Iron deposits; Sedimentary; Volcanogenic; Magmatic; Residual; Geology; Geochemistry; Genesis; Economic evaluation.

221 Not published.

222
Geology of an Area around Kohn Lake, by J.F. Lewry, 1983. Part of NTS Area 64M-S.E. 20 pages, 3 figures. Geological Map 222A, 1:100,000, in pocket.
Keywords: Saskatchewan, 64M-S.E., Kohn Lake, Precambrian, Churchill Province, Mudjatik Domain, Wollaston Domain, Many Islands Belt.

223 Not published.

224
Lake Sediment and Water Geochemistry of the Carswell Structure, Northwestern Saskatchewan, by Colin E. Dunn, 1980. 74-K(part). 36 pages, 8 tables, 2 plates, 10 figures (7 in pocket).
Keywords: Uranium geochemistry; Cobalt geochemistry; Nickel geochemistry; Yttrium geochemistry; Carswell Structure.
See also Report 214.

225 Not published.

226 Not published.

227 Not published.

228
Foster Lake, NTS Area 74A. Compilation Bedrock Geology Map Series, First Edition, 1983. 1:250,000 scale. Complied by G.E. Ray. Geological map with marginal notes and references, in folder.
See also Precambrian Data File DF 3

229
Geikie River, NTS Area 74H. Compilation Bedrock Geology Map Series, First Edition, 1983, 1:250,000 scale. Compiled by G.E. Ray. Geological map with marginal notes and references, in folder.
See also Precambrian Data File DF 4

230 Not published.

231 Not published.

232
Reindeer Lake North, NTS Area 64E. Compilation Bedrock Geology Map Series, First Edition, 1983, 1:250,000 scale. Complied by R. Macdonald and M.W. Thomas. Geological map with marginal notes and references, in folder.
See also Precambrian Data File DF 1

233
Lithologic Descriptions of Selected Cored Sections from the Colorado and Montana Groups (Middle Albian to Campanian) of Saskatchewan, by F. Simpson, 1981. 125 wells, 72 pages, 1 table (Correlation Chart); 1 sheet of 6 stratigraphic cross sections in pocket.
Keywords: Middle Albian; Campanian; Colorado Group; Montana Group; Core descriptions; Cross sections, stratigraphic; Correlation charts.

Miscellaneous Reports

In 1978 a formal series of numbered miscellaneous reports was initiated. Miscellaneous reports published prior to the introduction of the numbering system are grouped by subject matter.

No Charge

Annual Report of the Department of Energy and Mines (ISSN 0581 09). A separate report is published for each fiscal year beginning with the 1953-54 fiscal year. Latest copy available for distribution — copies of previous years are available for consultation in the Publications Office.

Note: *Mailing list maintained — if you wish to receive future editions of this publication please contact the Publications Office and request that your name be added to the Annual Report mailing list.*

Summary Reports of Geological Investigations (ISSN 0228 5657). The reports for the years 1973 and 1974 had the text and the maps printed separately and are available only as separates. The (preliminary edition) maps for this period are individually withdrawn from circulation as the comprehensive reports (and maps) of these areas are published.

The reports for the years 1975 to 1977 had the text and maps printed as a package although diazo prints of the maps are also separately available.

The reports for 1978 and subsequent years are listed with the numbered Miscellaneous Reports.

Summary Report of Geological Investigations Conducted in the Precambrian Area of Saskatchewan, 1973 (ISSN 0228 5657), by L. S. Beck and geologists of the Precambrian Geology Division. 65 pages, 10 articles, 2 tables, 2 figures. Separate (diazo) prints of the individual monochrome maps are also available for those areas that have not subsequently been published as Reports or Open Files.

(1) **Wathaman Lake (East),** 64-D-13-E., Geology, 1:36,000 (approximately), by W. G. Q. Johnston.
(2) **Mudjatik (Northwest),** 74-B-N.W., Geology, 1:87,000 (approximately) by T. I. I. Sibbald.
(3) **Mudjatik (Northwest),** 74-B-N.W., Foliation Trends, 1:87,000 (approximately) by T.I.I. Sibbald.

Summary Report of Field Investigations, 1974 (ISSN 0228 5657), by the Saskatchewan Geological Survey, edited by L. S. Beck and R. Macdonald. 104 pages, 20 articles, 8 figures.
Separate (diazo) prints of the individual monochrome maps are also available for those area that have not subsequently been published as Reports or Open Files.

(1) **Pelican Narrows (West),** 63-M-2-W., Geology, 1:38,000 (approximately), by R. Macdonald.
(2) **La Loche (North)** 74-C-N., Geology, 1:102,000 (approximately), by T. I. I. Sibbald.
(3) **La Loche (North),** 74-C-N., Foliation Trends, 1:102,000 (approximately), by J. F. Lewry.

Summary of Investigations, 1975 (ISSN 0228 5657), by the Saskatchewan Geological Survey. Editors: J. E. Christopher and R. Macdonald. 31 articles in 142 pages of text including, tables, figures and references; 13 printed preliminary edition monochrome maps and one polychrome index map in a separate container. The Summary of Investigations, 1975 is available only as a package (text and maps). Separate (diazo) prints of the individual monochrome maps are also available for those areas that have not subsequently been published as Reports or Open Files.
Maps (printed) in container:

(1) **Hunter Bay (East) and Part of Cartier Lake** 73P-2(E), part 73P-1(W) and 73P-1(E). 1:63,360 scale Preliminary Geological Map by L. H. Forsythe, 1975.
(2) **Maynard Lake and Sandy Narrows (West)** 63M-3(W) and 63M-4. 1:100,000 scale Preliminary Geological Map by B. P. Scott, 1975.
(3) **Gilbert Lake (West)** 63M-15(W). 1:63,360 scale Preliminary Geological Map by Tsu-Min Fuh, 1975.
(4) **Foster Lake (NE) and Geikie River (SE)** 74A-15(E), -16, 74H-1 and 74H-2. 1:100,000 scale Preliminary Geological Map by G. E. Ray, 1975.
(5) **Foster Lake (Part of)** 74-A-6(E),-7,-8(W),-9(W),-10 and -11(E). 1:100,000 scale Preliminary Geological Map by C. F. Gilboy, 1975.
(6) **Pelican Narrows (West) (Northern Part)** 63M-2(W). 1:63,360 scale Preliminary Geological Map by R. Macdonald, 1975.
(7) **Iskwatam Lake (East)** 63-M-11(E), 1:63,360 scale Preliminary Geological Map by R. Macdonald, 1975.
(8) **Duval Lake (West)** 63-N-4(W). 1:63,360 scale Preliminary Geological Map by R. Macdonald, 1975.
(9) **Reindeer Lake South (NW)** 64D-11,-12,-13(W) and -14(W). 1:100,000 scale Preliminary Geological Map by J. F. Lewry, 1975.
(10) **Reindeer Lake South (NW)** 64D-11,-12,-13(W) and -14(W). 1:100,000 scale Structural Geology by J. F. Lewry, 1975.
(11) **Reindeer Lake South (NE)** 64D-10(E),-15 and -16. 1:100,000 scale Preliminary Geological Map by F. F. Langford, M. R. Stauffer, L. C. Coleman and D. J. Mossman, 1975.
(12) **Geikie River (74H).** 1:250,000 scale Preliminary Geological Map of the Athabasca Formation (Southeast Edge) by P. Ramaekers, 1975.
(13) **Quaternary Geology, Upper Foster Lake (74A), Reindeer Lake South (64D), Pelican Narrows (63M) and part of Lac la Ronge (73P) and Amisk Lake (63L).** 1:500,000 scale, by B. T. Schreiner, D. W. Alley and E. A. Christiansen, 1975.
(14) **Precambrian Mapping Program.** 1:1,267,200 scale Index Map, 1975 Edition.

Summary of Investigations, 1976 (ISSN 0228 5657), by the Saskatchewan Geological Survey. Editors J. E. Christopher and R. Macdonald. 32 articles in 168 pages of text including tables, figures and references; 13 printed preliminary edition monochrome maps and one polychrome index map in a separate container. The Summary of Investigations, 1976 is available only as a package (text and maps). Separate (diazo) prints of the individual monochrome maps are also available for those areas that have not subsequently been published as Reports or Open Files.

Maps (printed) in container:

(1) **Seahorse Lake,** 74-H-4 (part), 1:2,000 scale Preliminary Radiometric Map, Total Count cps, by H. Stolz, 1976.

(2) **Reindeer Lake North (SW),** 64-E-3,4 and 6. 1:100,000 scale Preliminary Geological Map by J. F. Lewry, 1976.

(3) **Royal Lake (E) and Steephill Lake (E),** 64D-3(E) and 63M-14(E). 1:100,000 scale Preliminary Geological Map by W. G. Q. Johnston, 1976.

(4) **Maynard Lake and Sandy Narrows (W),** 63M-3(W),-4. 1:100,000 scale Preliminary Geological Map by B. P. Scott, 1976.

(5) **Reindeer Lake South (SE),** 64D-1,2,7 and 8. 1:100,000 scale Preliminary Geological Map by C. F. Gilboy, 1976.

(6) **Athabasca Formation, Northeast Edge (64L, 74I and 74P).** 1:250,000 scale Preliminary Reconnaissance Geology by Paul Ramaekers, 1976.

(7) **Bedded Halites in the Souris River Formation (Devonian): Potash Mining District Around Saskatoon.** 1:506, 880 scale, by A. C. Kendall, 1976.

(8) **Limestone-Tulabi Lakes** (Revision Mapping), 63L-11(E) (mainly). 1:50,000 scale, by R. Macdonald and G. A. Posehn, 1976.
See also Reports 30, 114 and 134.

(9) **Cartier Lake,** 73P-1. 1:63,360 scale Preliminary Geological Map by L. H. Forsythe, 1976.

(10) **Foster Lake (NW) and Geikie River (SW),** 74A-13,14 and 74H-3,4. 1:100,000 scale Preliminary Geological Map by G. E. Ray, 1976.

(11) **Quaternary Geology, Pelican Narrows (63M); Reindeer Lake South (64D); Reindeer Lake North (64E); Upper Foster Lake (74A); Geikie River (74H) and part of Amisk Lake (63L), Ile-a-la-Crosse (73O), Lac la Ronge (73P), Mudjatik (74B), and La Loche (74C).** 1:1,000,000 scale, by B. T. Schreiner and D. W. Alley, 1976.

(12) **Reindeer Lake North (SE),** 64E-1,2,7 and 8. 1:100,000 scale Preliminary Geological Map by M. R. Stauffer, L. C. Coleman, D. J. Mossman, S. Fumerton, K. Ashton, N. MacFarlane and F. F. Langford, 1976.

(13) **Steephill Lake (W),** 63M-14(W). 1:31,680 scale Preliminary Geological Map, by B. P. Scott, 1976.

(14) **Precambrian Mapping Index.** 1:1,267,200 scale index map, 1976 Edition.

Summary of Investigations 1977, (ISSN 0228 5657). by the Saskatchewan Geological Survey. Editors: J. E. Christopher and R. Macdonald. 31 articles in 197 pages of text including tables, figures and references; 14 printed preliminary edition monochrome maps and one polychrome index map included in a separate container. The Summary of Investigations, 1977 is available only as a package (text and maps). Separate (diazo) prints of the individual monochrome maps are also available for those areas that have not subsequently been published as Reports or Open Files.

Maps (printed) in container:

(1) **Middleton Lake, Geikie River Area** (Part of 74H), 1:100,000 scale Preliminary Geological Map by L. H. Forsythe.

(2) **Upper Clearwater River Area** (Part of 74F), 1:100,000 scale Preliminary Geological Map by B. P. Scott.

(3) **Ballentin Island Segment, Reindeer Lake** (Part of 64E-NE), 1:100,000 scale Preliminary Geological Map by M. R. Stauffer.

(4) **Cree Lake (South) Area, Sheet 1** (Part of 74G). 1:100,000 scale Preliminary Geological Map by C. F. Gilboy and P. Ramaekers.

(5) **Cree Lake (South) Area, Sheet 2** (Part of 74G). 1:100,000 scale Preliminary Geological Map by C. F. Gilboy and P. Ramaekers.

(6) **Compulsion Bay, Wollaston Lake Area** (Part of 64E-NW). 1:100,000 scale Preliminary Geological Map by J. F. Lewry.

(7) **Pagato River Area** (63M-16). 1:50,000 scale Preliminary Geological Map by Tsu-Min Fuh.

(8) **Royal Lake (West) Area** (64D-3-W). 1:63,360 scale Preliminary Geological Map by W. G. Q. Johnston.

(9) **Daly Lake (West) and Middle Foster Lake Areas** (74A-12W & part of 74A-11W). 1:63,360 scale Preliminary Geological Map by G. E. Ray.

(10) **Preliminary Map, Quaternary Geology of the Precambrian Shield Area South of 58°, Saskatchewan,** 1:1,000,000 scale, by B. T. Schreiner, 1977.

(11) **La Ronge-Wollaston Belts Base Metals Project: Sito Lake Area** (Parts of 74A-4,-5). 1:31,680 scale Preliminary Geological Map by D. Potter.

(12) **Uranium Metallogenic Studies :III Cluff Lake** (Parts of 74K-5,-6,-11,-12). 1:50,000 Preliminary Geological Map by C. T. Harper.

(13) **Athabasca Formation, South-Central Edge** (74G Area). 1:100,000 scale Preliminary Geological Map by P. Ramaekers.

(14) **Athabasca Formation, Northeast Edge** (64L, 74I and 74P). 1:250,000 scale Regional Seismic Coverage by J. V. Suryam.

(15) **Pasquia Hills, East-Central Saskatchewan** (63E). 1:250,000 scale. A Geochemical Study of Waters and Sediments by C. E. Dunn.

(16) **Precambrian Mapping Index, 1977 Edition.** 1:1,267,200 scale index map.

Note: *The Summary of Investigations for 1978 and subsequent years are listed with the numbered Miscellaneous Reports.*

Statistical Yearbooks (ISSN 0707 2570).

For the years 1954 to 1963 these Yearbooks contained Petroleum and Natural Gas statistics only. Beginning in 1964 these Yearbooks contain production and revenue statistics of all minerals produced in the province (including petroleum and natural gas).

The Yearbooks for the following years are out of print: 1900-1971, and for 1973.

The Yearbooks for the following years are available: 1972, 1974, 1975 and 1976.

Note: *The Yearbooks for 1977 and subsequent years are listed with the numbered Miscellaneous Reports.*

Oil and Gas Analyses, 1957. 123 pages. Analyses of crude oil indicating the origin, characteristics and results of distillation tests from 71 wells in 56 pools. Analyses of natural gas indicating the origin and composition of samples from 22 gas wells in 14 pools and samples of casing-head gas from 36 oil wells in 20 pools.

Oil Analyses Supplement, 1964. Contains additional oil analyses that have become available since the publication of Oil and Gas Analyses, 1957. 105 pages, 97 analyses of wells in 46 pools.

Gas Analyses Supplement, 1964. Contains additional gas analyses that have become available since the publication of Oil and Gas Analyses, 1957. 139 pages. 107 analyses of casing head gas in oil wells in 44 pools, 21 analyses of gas in gas wells in 11 pools.

Out of print.

Core Index (To December 1959). Volume 1. Printed 1962. 404 pages. **Part I** lists well cores by geological formation. **Part II** lists well cores by land location. Appendixes listing: wells with confidential Precambrian core; wells with confidential Prairie Evaporite core and wells with lost core are included.

Out of print.

Core Index (To December 1961). Volume 2. Printed 1963. 61 pages. **Part I** lists well cores by geological formation. **Part II** lists well cores by land location. An appendix listing wells with confidential Prairie Evaporite core is included.

Out of print.

Core Index (To December 1963). Volume 3. Printed 1965. 70 pages. **Part I** lists well cores by geological formation. **Part II** lists well cores by land location. Appendixes listing wells with confidential Prairie Evaporite core, wells with lost core and wells drilled prior to December, 1961, with core not reported in previous Core Indexes are included.

Saskatchewan Oil and Gas Units. Contains information regarding statutory and voluntary units such as: unit operator, effective date of unit, working interest owner and percentage ownership, and a map of the unit area.

A copy of the unit agreement for each statutory and voluntary unit has been filed with the department and is available for consultation in the Petroleum and Natural Gas Division 1914 Hamilton St. Regina, Sask., during office hours. If copies are required please contact the Unit Operator.

Silica Sand and Coal Occurrences on Wapawekka Lake, by W. J. Pearson, 1961. 20 pages, 2 tables, 2 figures.

Preliminary Report on the Coal Resources in the Wood Mountain-Willow Bunch Area of Saskatchewan, by W. J. Pearson, 1962. 26 pages, 1 figure, 1 generalized geological map (diazo print) 1:506,880 scale, 1 coal area map (diazo print) 1:253,440 scale.

Coal Reserves in the Estevan Coalfield, by W. J. Pearson, 1962. 4 pages, 1 figure, 1 Economic Coal Seams Map (diazo print) 1;50,000 scale.

Out of print.

Geology and Production History of the Bakken Formation in the Rocanville Area, Southeastern Saskatchewan, by W. P. C. von Osinski, 1970. 16 pages, 9 figures.

Out of print.

Geology and Production History of the Rosebank Area, Southeastern Saskatchewan, by W. P. C. von Osinski, 1971. Includes the following pools: Ingoldsby Frobisher-Alida Beds, Silverton Frobisher Beds, Oakley Frobisher Beds, Rosebank Alida Beds, Rosebank South Alida Beds, Storthoaks Alida-Tilston Beds and Nottingham Alida Beds. 32 pages, 6 figures.

Geology and Production History of the Hume Frobisher Beds Oil Pool and the Hume Midale Beds Oil Pool in the Hume Area, by W. P. C. von Osinski, 1974. 10 pages, 8 figures.

Geology and Heavy Oil Reserves of the Mannville Group, Lloydminster-North Battleford Area, Saskatchewan, by W. I. White and W. P. von Osinski, 1977. 8 pages, 4 tables, 10 figures (6 in pocket). Estimate of volume of original heavy oil in place derived from electrical log examination.

Seismic Investigation of the Stenen Magnetic Anomaly, by K. Burke, D. Gendzwill and H. Sawatzky, 1966. 24 pages, 1 table, 10 figures.

Out of print.

Saskatchewan Energy Flow Accounts, 1963-1975 (ISSN 0708 348X). Outlines on an annual basis all sources and end-uses of almost every type of commercial energy produced or consumed in Saskatchewan. The energy commodities covered are: crude oil, natural gas, coal, hydro, uranium, electricity, and seven types of refined petroleum products. Listed in standard units, British Thermal Units and dollar values of these commodities are Saskatchewan's production, exports, imports, inventory changes, conversion losses and consumption by ten types of provincial energy commodity consumers.
Note: *Beginning with the next edition, subsequent editions of this publication are included with the numbered Miscellaneous Reports.*

R.P.I. 1
Core Drilling For Industrial Minerals in Saskatchewan, 1948-1952, by G. S. Crawford and E. Y. Carlson, 1953. 92 pages, 6 plates, 38 figures.

R.P.I. 2
Separation of Kaolin From Kaolinized Sand, by J. W. Spyker, E. Y. Carlson and W. J. Babey, 1954. 23 pages, 9 tables, 11 figures.

R.P.I. 3
Improving Saskatchewan Swelling Bentonite by Chemical and Mechanical Treatment, by R. V. Tomkins, J. W. Spyker and E. Y. Carlson, 1954. 33 pages, 6 tables, 17 figures.

R.P.I. 4
Acid Activation of Saskatchewan Bentonites, by A. A. Winer, 1954. 29 pages, 5 tables, 12 figures.

R.P.I. 5
Dehydration of Glauber's Salt by Transition Point Depression, by R. V. Tomkins and J. W. Spyker, 1955. 21 pages, 3 tables, 6 figures.

R.P.I. 6
Core Drilling For Industrial Minerals in Saskatchewan, 1953-1954, by E. Y. Carlson and W. J. Babey, 1955. 53 pages, 5 plates, 24 figures.

R.P.I. 7
The Red Deer River Silica Sand Deposit of East Central Saskatchewan, by W. J. Babey, 1955. 29 pages, 18 tables, 6 figures.

R.P.I. 8 Out of print.
Sturgeon Lake Marl Deposit, by E. Y. Carlson, 1956. 55 pages, 10 tables, 14 figures.

R.P.I. 9
Light-Weight Concrete Aggregates From Saskatchewan Clays, by A. Sacuta, 1956. 35 pages, 8 tables, 9 figures.

78-1
Economic, Social and Planning Requirements for Northern Communities, by H. D. Linn and J. C. Stabler. 306 pages, 193 tables, 14 plates, 7 figures.

78-2 Out of print.
Energy Resource Management in Saskatchewan, 65 pages, 11 tables, 5 figures.

78-3 Out of print.
Reservoir Annual 1977

78-4 Out of print.
Economic Minerals of Saskatchewan, by J. A. Tweedie.

78-5 No charge
Environmental Aspects of Oil and Gas Production in Saskatchewan, by M. J. Denner. 27 pages, 1 table, 6 plates, 7 figures, 1 map.

78-6 Out of print.
Reservoir Performance Charts, 1977.

78-7
Mineral Statistics Yearbook, 1977 (ISSN 0707 2570). 58 pages of tables. Contains statistics pertaining to mineral production and disposition, value of production and Crown land disposition for all minerals. A summary of drilling statistics on a monthly, annual and all-time basis is also included.

78-8 Out of print.
Saskatchewan Coal Policy. 33 pages, 1 figure. Outlined are various policy elements under the general objectives of: security of energy supply, environmental protection, coal research and development, economic and social benefits. Description of administrative procedures on the Crown coal rights disposition system and mine licencing policy.

78-9 Out of print.
1978 Supplement to the Catalogue of Maps and Publications, 1975.

78-10
Summary of Investigations, 1978 (ISSN 0228 5657), by the Saskatchewan Geological Survey. Editors: J. E. Christopher and R. Macdonald. 33 articles in 171 pages of text including tables, figures and references; 15 printed preliminary monochrome maps and one polychrome index map — text and maps together in container. The Summary of Investigations, 1978 is available only as a package (text and maps). Separate (diazo) prints of the individual monochrome maps are also available for those areas that have not subsequently been published as Reports or Open Files. Maps (printed) in container:

(1) **Laird Lake (West) Area** (NTS Area 63M-14W). 1:50,000 scale Preliminary Geological Map by B. P. Scott.
(2) **Re-investigation Geology, Jan Lake Area** (Part of NTS Area 63M). 1:50,000 scale Preliminary Geological Map by R. Macdonald and R. R. MacQuarrie.
See also Reports 31, 93 and 170.

(3) **Wollaston Lake (West) Area** (Part of NTS Area 64L). 1:100,000 scale Preliminary Geological Map by G. E. Ray, Sheet I.

(4) **Wollaston Lake (West) Area** (Part of NTS Area 64L). 1:100,000 scale Preliminary Geological Map by G. E. Ray, Sheet II.

(5) **Stony Rapids Area** (Part of NTS Area 74P). 1:100,000 scale Preliminary Geological Map by C. F. Gilboy, Sheet I.

(6) **Stony Rapids Area** (Part of NTS Area 74P). 1:100,000 scale Preliminary Geological Map by C. F. Gilboy, Sheet II.

(7) **Quaternary Geology of the Precambrian Shield Area, Saskatchewan.** 1:1,000,000 scale Preliminary Map by B. T. Schreiner.

(8) **Uranium Metallogenic Studies: Rabbit Lake, Geological Cross-Section, 1 + 00N.** NTS Area 64L-4 (part). 1:600 scale, by T.I.I. Sibbald.

(9) **Uranium Metallogenic Studies: Charlebois Lake Area.** NTS Area 74P-7 (part). 1:20,000 scale Preliminary Geological Map by D. Thomas

(10) **Uranium Metallogenic Studies: Cup Lake Area,** NTS Area 74B-2 (part). 1:20,000 scale Preliminary Geological Map by D. Thomas.

(11) **Uranium Metallogenic Studies: Maurice Bay,** NTS Area 74N-5,-12 (parts). 1:50,000 scale Preliminary Geological Map by C. T. Harper.

(12) **Wollaston Belt Base Metals Project, Duddridge-Meyers Lakes Area,** NTS Areas 730-9,-16 and 73P-12,-13 (parts). 1:50,000 scale Preliminary Geological Map by W. Coombe and D. Potter.

(13) **Athabasca Formation, Southwestern Edge (74F, 74K), Part 1 - Reconnaissance Geology.** 1:250,000 scale Preliminary Geological Map by Paul Ramaekers.

(14) **Reconnaissance Geology of the Interior Athabasca Basin (Northern Saskatchewan).** 1:1,000,000 scale map by Paul Ramaekers.

(15) **Potential Peat Areas of Saskatchewan South of the Precambrian Shield.** 1:1,267,200 scale Preliminary Map by R. Troyer.

(16) **Precambrian Mapping Index, 1978 Edition.** 1:1,267,200 scale index map.

78-11 Out of print - superseded by Miscellaneous Report 79-11.

Mineral Resources of Saskatchewan, by M. J. Denner.

79-1 Out of print - superseded by Miscellaneous Report 80-08.

Saskatchewan Energy Flow Accounts — Revisions and Update (ISSN 0708 384X). 39 pages of tables. Outlines all sources and end uses of every major type of commercial energy produced or consumed in Saskatchewan in 1976 and 1977. Commodities covered are crude oil, natural gas, coal, hydro, uranium, electricity and seven types of refined petroleum products. Production, exports, imports, inventory changes, conversion losses and consumption by ten types of provincial energy consumers are outlined in standard units, British Thermal Units and dollar units.

79-2

Index to Non-Confidential Drill Holes in the Athabasca Formation (Excluding Development Drilling), by Anne Fuzesy and Richard Young. 54 pages. To April 1, 1979. Listed are company, disposition, S.E.M. file number, hole number, size, angle, bearing, depth, location, latitude, longitude, elevation, casing, formation tops, subsea depths, thickness, core, date.

Note re Assessment Work Indexes

The following description pertains to the contents of Miscellaneous Reports 79-3, 79-4 and 79-5 which follow.

These indexes are designed to inform the users, particularly those interested in Precambrian exploration of the types of data available to them in the files of the Precambrian Geology Division of the Department of Energy and Mines.

The files which have been indexed are those submitted to the department by industry engaged in geological and geophysical exploration in Northern Saskatchewan.

Entries in the index are grouped according to the numeric and alphabetic system of the National Topographic System grid.

A property index provides a listing of claim names, claim block numbers, permits, mineral leases, concessions and properties which cannot be included in any of these groups.

The indexes are divided into three parts according to the boundaries of the three Mining Districts of La Ronge, Reindeer and Athabasca.

See Figure 14 for the areas of the Mining Districts.
See also "Airborne Geophysical Index, Precambrian Area" listed in the Geophysical Maps Section.

79-3 Out of print - superseded by Miscellaneous Report 82-10

Index to Assessment Work in the Reindeer Mining District of Saskatchewan, by M. A. Fuzesy. 168 pages.

79-4

Index to Assessment Work in the La Ronge Mining District of Saskatchewan, by Anne Fuzesy. 186 pages.

See also Miscellaneous Reports 79-5, 82-10, 84-6.

79-5

Index to Assessment Work in the Athabasca Mining District of Saskatchewan, by Anne Fuzesy. 201 pages.

See also Miscellaneous Reports 79-4, 82-10, 84-6.

79-6 Out of print.

Reservoir Performance Charts, 1978

79-7 Not published.

79-8 Out of print.

Reservoir Annual, 1978.

79-9

Mineral Statistics Yearbook, 1978 (ISSN 0707 2570). 59 pages of tables. Contains statistics pertaining to mineral production and disposition, value of production and Crown land disposition for all minerals. A summary of drilling statistics on a monthly, annual and all-time basis is also included.

79-10

Summary of Investigations, 1979 (ISSN 0228 5657), by the Saskatchewan Geological Survey. Editors: J. E. Christopher and R. Macdonald. 39 articles in 227 pages of text including tables, figures and references; 14 printed preliminary monochrome maps and one polychrome index map - text and maps together in container. The Summary of Investigations, 1979 is available only as a package (text and maps). Separate (diazo) prints of the individual monochrome maps are also available for those areas that have not subsequently been published as Reports or Open Files. Maps (printed) in container:

(1) **Reconnaissance Geology; Phelps Lake** (NTS Area 64M-SE). 1:100,000 scale Preliminary Geological Map by J. F. Lewry.
(2) **Reconnaissance Geology: Stony Rapids North** (Part of NTS Area 74P). 1:100,000 scale Preliminary Geological Map by C. F. Gilboy.
(3) **Reconnaissance Geology: Wollaston Lake East** (Part of NTS Area 64L). 1:100,000 scale Preliminary Geological Map by G. E. Ray.
(4) **Re-Investigation Geology: Birch Portage South** (NTS Area 63L-15 South). 1:50,000 scale Preliminary Geological Map by R. R. MacQuarrie. *See also Report 93.*
(5) **Precambrian Compilation: Reindeer Lake South** (NTS Area 64D). 1:250,000 scale Preliminary Geological Map by W. G. Q. Johnston.
(6) **Quaternary Geology of the Precambrian Shield Area, Saskatchewan.** 1:1,000,000 scale Preliminary Map by B. T. Schreiner, 1979.
(7) **Reconnaissance Geology: Upper Clearwater River** (Part of NTS area 74F). 1:100,000 scale Preliminary Geological Map by B. P. Scott.
(8) **Uranium Metallogenic Studies: Karin Lake, Pipewrench Lake and Pluto Bay Areas** (three maps on one sheet):
    Karin Lake (Part of NTS Area 74A-14) 1:40,000 scale.
    Pipewrench Lake (Part of NTS Area 74A-5) 1:20,000 scale.
    Pluto Bay (Part of NTS Area 74P-6) 1:20,000 scale.
  Preliminary Geological Maps by D. Thomas.
(9) **Uranium Metallogenic Studies; Maurice Bay Area** (Part of NTS Area 74N-5 and 74N-12 [South]). 1:50,000 scale Preliminary Geological Map by C. T. Harper.
(10) **Flin Flon Base Metals Project: East Amisk Lake Area** (Parts of NTS Areas 63K-12 and 63L-9,-16). 1:50,000 scale Preliminary Geological Map by F. McDougall.
(11) **Uranium Reconnaissance Program Compilation: Airborne Radiometric Map of the Precambrian Shield in Saskatchewan.** 1:1,267,200 scale Preliminary Map by H. Stolz.
(12) **Flin Flon Gold Prospects: Douglas Lake-Wekach Lake Area** (Part of NTS Area 63K-12). 1:10,000 scale Preliminary Geological Map by J. G. Pearson.
(13) **Stratigraphy of the Athabasca Basin** (Northern Saskatchewan). 1:1,000,000 scale Preliminary Geological Map by Paul Ramaekers.
(14) **Sections Through the Athabasca Basin** (Northern Saskatchewan). Scales: 1:1,000,000 (horizontal); 1:10,000 (vertical). Preliminary Geology by Paul Ramaekers.
(15) **Precambrian Mapping Index, 1979 Edition.** 1:1,267,200 scale index map.

79-11 Out of print.

Mineral Resources of Saskatchewan, 1979, by M. J. Denner and P. L. Reeves. 30 pages, 11 tables, 8 figures.

80-1 Out of print.

Reservoir Annual, 1979. 119 pages of tables, graphs and figures. Contains oil and gas reserves data, development and production data, information concerning enhanced recovery projects and related reservoir information.

80-2 Out of print.

Reservoir Performance Charts, 1979. Contains graphs of data from pools and units such as: gas-oil and water-oil ratios, pressure data, production and injection histories and number of producing wells.

80-3

Mineral Statistics Yearbook, 1979 (ISSN 0707 2570). 60 pages of statistical tables. Contains an annual summary of production, sales and value of sales for fuel, industrial and metallic minerals, drilling statistics and Crown land disposition. Detailed monthly production and disposition data are provided only for fuel minerals.

80-4

Summary of Investigations, 1980 (ISSN 0228 5657), Saskatchewan Geological Survey, edited by J. E. Christopher and R. Macdonald. 46 articles in 170 pages of text including tables, figures and references; 19 printed preliminary monochrome maps, one polychrome provisional edition geological map of the province (in two sheets) and one polychrome index map - text and maps together in one container. The Summary of Investigations, 1980 is available only as a package (text and maps). Separate (diazo) prints of the individual monochrome maps are also available for those areas that have not subsequently been published as Reports or Open Files. Separate copies of the polychrome Geological Map of Saskatchewan, Provisional Edition, 1980, are also available (printed in two sheets - North and South sheets are not available individually).

Maps (printed) in container:

(1) **Reconnaissance Bedrock Geology: Cochrane River Area** (part of NTS 64L). 1:100,000 scale Preliminary Geological Map by B. P. Scott.

(2) **Reconnaissance Bedrock Geology: Wollaston Lake Southeast Area** (part of NTS 64L). 1:100,000 scale Preliminary Geological Map by R. R. MacQuarrie.

(3) **Reconnaissance Bedrock Geology: Chambeuil Lake East Area** (NTS 74P-11E). 1:100,000 scale Preliminary Geological Map by C. F. Gilboy.

(4) **Bedrock Compilation Geology: Cree Lake Area** (NTS 74G). 1:250,000 scale Preliminary Geological Map by C. F. Gilboy.

(5) **Bedrock Compilation Geology: Stony Rapids Area** (NTS 74P). 1:250,000 scale Preliminary Geological Map by C. F. Gilboy.

(6) **Bedrock Compilation Geology: Foster Lake Area** (NTS 74A). 1:250,000 scale Preliminary Geological Map by G. E. Ray.

(7) **Bedrock Compilation Geology: Geikie River Area** (NTS 74H).1:250,000 scale Preliminary Geological Map by G. E. Ray.

(8) **Uranium Metallogenic Studies: Lodge Bay Area, Lake Athabasca** (part of NTS 74N-7). 1:31,680 scale Preliminary Geological Map by T. I. I. Sibbald and J. F. Lewry.

(9) **Geological Interpretation, NEA/IAEA Athabasca Basin Test Area.** 1:50,000 scale Preliminary Geological Map by T. I. I. Sibbald.

(10) **Airborne Radiometric Maps of the Precambrian Shield in Saskatchewan.** A series of seven 1:1,000,000 scale maps by H. Stolz.

    Map 1. Total Count.
    Map 2. Equivalent Uranium.
    Map 3. Equivalent Thorium.
    Map 4. Potassium.
    Map 5. e Uranium/e Thorium.
    Map 6. e Uranium/Potassium.
    Map 7. e Thorium/Potassium.

(11) **Stratigraphy and Maximum Grain Size Distribution, Athabasca Basin** (two maps on one sheet):

    A. Geological Map of the Athabasca Basin.
    B. Maximum Grain Size in the Sandy Formations of the Athabasca Group. 1:1,000,000 scale Preliminary Geological Map by P. Ramaekers.

(12) **Sections through the Athabasca Basin.** Horizontal scale 1:1,000,000; Vertical scale 1:10,000 Preliminary Geological Sections by P. Ramaekers.

(13) **Subsurface Geology of Saskatchewan (Geological Sections).** Horizontal scale 1:250,000; Vertical scale 1;15,000 (approximately), Preliminary Geological Sections by P. Broughton.

(14) **Geological Map of Saskatchewan, Provisional Edition, 1980.** 1:1,000,000 scale. Compiled by Robert Macdonald (Precambrian Geology) and Paul Broughton (Phanerozoic Geology).

(15) **Precambrian Mapping Index, 1980 Edition.** 1:1,267,200 scale index map.

80-5 Not published.

80-6 Not published.

80-7

Proceedings: Saskatchewan Development Conference, 1979. 100 pages. Minutes of the Resource Development Conference held in Saskatoon, Sask., Aug. 29-30, 1979.

80-8 Out of print - superseded by Miscellaneous Report 81-7

Saskatchewan Energy Flow Accounts-Revisions and Update (ISSN 0708 384X). 28 pages of tables. Outlines all sources and end uses of every major type of commercial energy produced or consumed in Saskatchewan in 1978.

Commodities covered are crude oil, natural gas, coal, hydro, uranium, electricity and seven types of refined petroleum products. Products, exports, imports, inventory changes, conversion losses and consumption by 10 types of provincial energy consumers are outlined in standard units, British Thermal Units and dollar units.

80-9 Not published.

80-10 No charge.

Energy Supply and Demand. Submission to the National Energy Board by the Saskatchewan Department of Energy and Mines, September, 1980.

81-1

Reservoir Annual, 1980 (ISSN 0707 2562). 122 pages of tables, graphs and figures. Contains oil and gas reserves data, development and production data, information concerning enhanced recovery projects and related reservoir information.

81-2 Out of print.

Reservoir Performance Charts, 1980 (ISSN 0225 3496). Contains graphs of data from pools and units such as: gas-oil and water-oil ratios, pressure data, production and injection histories and number of producing wells. XX plus 393 pages.

81-3

Mineral Statistics Yearbook, 1980 (ISSN 0707 2570). 109 pages of statistical tables, mineral area maps and map directories. The format for the 1980 edition has been revised to provide a summary section on mineral production, sales, value of sales and provincial revenues from minerals and a detailed section containing annual, monthly and historical data on each of fuel, industrial and metallic minerals as well as on drilling statistics and Crown land disposition.

81-4

Summary of Investigations 1981 (ISSN 0228 5657). Saskatchewan Geological Survey, technical editors J. E. Christopher and R. Macdonald, production editor R. F. Davie. 41 articles in 185 pages of text including tables, figures and references; nine preliminary edition monochrome maps and one polychrome index map - text and maps together in one container. The Summary of Investigations 1981 is available only as a package (text and maps). Separate (diazo) prints of the individual monochrome maps are also available for those areas that have not subsequently been published as Reports or Open Files. Maps (printed) in container:

(1) **Reconnaissance Bedrock Geology: Phelps Lake Southwest Area** (NTS 64M-S.W.). 1:100,000 scale Preliminary Geological Map by B. P. Scott.

(2) **Compilation Bedrock Geology: Lloyd Lake Area** (NTS 74F). 1:250,000 scale Preliminary Geological Map by B. P. Scott and P. Ramaekers.

(3) **Compilation Bedrock Geology: Pelican Narrows and Amisk Lake Areas** (NTS 63M, 63L, part of 63N and 63K). 1:250,000 scale Preliminary Geological Map by R. Macdonald.

(4) **Revision Geology, Stanley Shear Zone** (part of NTS 73P). 1:50,000 scale Preliminary Geological Map by J. F. Lewry.
See also Reports 4, 56, 78, 115.

(5) **Revision Geology, Otter Lake Area** (part of NTS 73P). 1:50,000 scale Preliminary Geological Map by A. Abraham.
See also Report 41

(6) **Uranium Metallogenic Studies: Collins Bay B Zone, Geological Cross-section** (NTS 64L-5). 1:600 (horizontal and vertical) scale Preliminary Geological Section by T. I. I. Sibbald.

(7) **Geology and Sample Locations, Annabel Lake Area** (NTS 63L-16, part). 1:31,680 scale Preliminary Geological Map by J. W. Gaskarth.

(8) **Geology of the Phantom Lake-Schist Lake Area** (NTS 63K-12, part). 1:5,000 scale Preliminary Geological Map by J. G. Pearson.

(9) **Regional Seismic Profile, Athabasca Basin** (NTS 64L-4,-5; 74I-1,-8). 1:50,000 scale Preliminary Geophysical Map by J. V. Suryam.

(10) **Precambrian Mapping Index, 1981 Edition.** 1:1,267,200 scale index map.

81-5 No charge

Uranium Reserves and Potential of Northern Saskatchewan, by M. J. Denner and P. L. Reeves. 22 pages, 2 tables, 5 figures.

81-6 Out of print

The Canada-Saskatchewan Renewables -Conservation Demonstration Program. 8 pages. Explains the program and defines those eligible for funding.

81-7 No charge

Energy Saskatchewan: The Flow Accounts. (ISSN 0706 384X). 68 pages of tables, graphs and references. Covers the period 1963 to 1979 with preliminary data for 1980. Metric units are used throughout. This publication incorporates the data (which was given in imperial units) appearing in the three previous editions which were published as an unnumbered Miscellaneous Report and as Miscellaneous Reports 79-1 and 80-8. Outlines all sources and end uses of every major type of commercial energy produced or consumed in Saskatchewan. Commodities covered are: crude oil, natural gas, coal, uranium, electricity and seven types of refined petroleum products. Production, exports, imports, inventory changes, conversion losses and consumption by ten types of commercial energy consumers are outlined in standard units, joules and dollar values.

Note: *Mailing list maintained - if you wish to receive future editions of this publication automatically please contact the Publications Office and request that your name be added to the Flow Accounts mailing list.*

81-8 No charge

The Canada-Saskatchewan Heavy Oil Agreement. 11 pages, 4 plates, 7 figures. Looks at this agreement intended to further the development of Saskatchewan's heavy oil resource, and traces the history of several enhanced recovery projects.

81-9 No charge

Energy Saskatchewan: The Situation Today. 34 pages, 25 plates, 7 figures. Discusses in general terms and provides a broad overview of Saskatchewan's energy production, consumption, exports and imports by various types; oil, natural gas, coal, electricity, hydro, solar, biomass, wind, geothermal, and nuclear.

82-1

Reservoir Annual, 1981 (ISSN 0707 2562). 136 pages of tables, graphs and figures. Contains oil and gas reserves data, development and production data, information concerning enhanced recovery projects and related reservoir information.

82-2

Reservoir Performance Charts, 1981 (ISSN 0225 3496). Contains graphs of data from pools and units such as: gas-oil and water-oil ratios, pressure data, production and injection histories and number of producing wells. XVII plus 411 pages.

82-3

Mineral Statistics Yearbook, 1981 (ISSN 0707 2570). 111 pages of statistical tables, mineral area maps and map directories. The format for the 1981 edition includes a summary section on mineral production, sales, value of sales and provincial revenues from minerals and a detailed section containing annual, monthly and historical data on each of fuel, industrial and metallic minerals as well as on drilling statistics and Crown land disposition.

82-4

Summary of Investigations 1982 (ISSN 0228 5657). Saskatchewan Geological Survey. 32 articles in 158 pages of text including tables figures and references; nine preliminary edition monochrome maps and one polychrome index map - text and maps together in one container. The Summary of Investigations 1982 is available only as a package (text and maps). Separate (diazo) prints of the individual monochrome maps are also available for those areas that have not subsequently been published as Reports or Open Files.

Maps (printed) in container:

(1) **Compilation Bedrock Geology: Wollaston Lake Area** (NTS 64L). 1:250,000 scale Preliminary Geological Map by M. W. Thomas.

(2) **Compilation Bedrock Geology: Reindeer Lake North Area** (NTS 64E). 1:250,000 scale Preliminary Geological Map by M. W. Thomas and R. Macdonald.

(3) **Geology of the Sub-Athabasca Basement, Cree Lake Area** (NTS 74G). 1:250,000 scale Preliminary Geological Map by C. F. Gilboy.

(4) **Geology of the Sub-Athabasca Basement, Geikie River Area** (NTS 74H). 1:250,000 scale Preliminary Geological Map by C. F. Gilboy.

(5) **Geology of the Hill Lake Area** (NTS 74N, part; CSMA* Photomap Sheet 6500-65900). 1:20,000 scale Preliminary Geological Map by R. Macdonald with M. W. Thomas and N. Lee.

(6) **Geology of the Area around Nicholson Bay** (NTS 74N, part; CSMA* Photomap Sheet 6400-65900). 1:20,000 scale Preliminary Geological Map by T. I. I. Sibbald.

(7) **Geology of an Area around Mickey Lake** (74N, part). 1:10,000 scale Preliminary Geological Map by D. J. Thomas.

(8) **Geology of the Robinson Creek Gold Occurrence** (NTS 63L, part). 1:2,000 scale Preliminary Geological Map by J. G. Pearson.

(9) **Geology of the Dianne Lake Prospect Area** (NTS 74N, part). 1:2,000 scale Preliminary Geological Map by B. P. Scott.

(10) **Precambrian Mapping Index, 1982 edition.** 1:1,267,000 scale index map.

82-5 Not published.

82-6 Out of print

Planning Your Home Retrofit Project

82-7 Out of print

Conservahome Case Histories, Part 1

82-8 Out of print

Conservahome Case Histories, Part 2

82-9 Out of print

Conservahome Case Histories, Part 3

82-10

Index to Assessment Work in the Reindeer Mining District of Saskatchewan, by Anne Fuzesy.

See Figure 14 for the area of the Reindeer Mining District.

172 pages. This index is designed to inform the users, particularly those interested in Precambrian exploration, of the types of data available to them in the files of the Precambrian Geology Sector of the Department of Energy and Mines.

The files which have been indexed are those submitted to the department by industry engaged in geological and geophysical exploration in Northern Saskatchewan.

Entries in the index are grouped according to the numeric and alphabetic system of the National Topographic System grid.

A property index provides a listing of claim names, claim block numbers, permits, mineral leases, concessions and properties which cannot be included in any of these groups.

See also Miscellaneous Reports 79-4, 79-5, 84-6.

83-1

Reservoir Annual 1982 (ISSN 0707 2562). 130 pages of tables, graphs, maps and figures. Contains oil and gas reserves data, development and production data, information concerning enhanced recovery projects and related reservoir information.

83-2

Reservoir Performance Charts, 1982 (ISSN 0225 3496). XXI plus 422 pages. Contains graphs of data from pools and units such as: gas-oil and water-oil ratios, pressure data, production and injection histories and number of producing wells.

83-3

Mineral Statistics Yearbook, 1982 (ISSN 0707 2570). 108 pages of statistical tables, mineral area maps and map directories. The format includes a summary section on mineral production, disposition, value of disposition and provincial revenues from minerals, and a detailed section containing monthly, annual and historical data on each of fuel, industrial and metallic minerals. A summary of drilling statistics and Crown land disposition on a monthly, yearly and all-time format is also included.

83-4

Summary of Investigations 1983 (ISSN 0228 5657), Saskatchewan Geological Survey. 28 articles in 148 pages of text including tables figures and references; eight preliminary edition monochrome maps and one polychrome index map-text and maps together in one container. The Summary of Investigations 1983 is available only as a package (text and maps). Separate (diazo) prints of the individual monochrome maps are also available, for those areas that have not subsequently been published as Reports or Open Files.

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* *Central Survey and Mapping Agency, Saskatchewan Department of Supply and Services.*

Maps (printed) in container:

1. **Geology of the Oman Lake Area** (NTS 74 0-10). 1:50,000 scale Preliminary Geological Map by B. P. Scott.
2. **Geology of the Nevins-Forsyth Lakes Area** (parts of 74 0-5, -6, -11, -12). 1:50,000 scale Preliminary Geological Map by C. T. Harper
3. **Geology of the Forsyth Lake (East) Area** (NTS 74 0-11E). 1:50,000 scale Preliminary Geological Map by D. J. Thomas.
4. **Geology of the Oldman Lake Area** (NTS 74 0-12, part). 1:50,000 scale Preliminary Geological Map by Robert Macdonald.
5. **Geology of the Prince Lake Area** (NTS 74 N-9 part). 1:30,000 scale Preliminary Geological Map by M. W. Thomas and Robert Macdonald.
6. **Geology of the Sub-Athabasca Basement, Lloyd Lake Area** (NTS 74 F). 1:250,000 scale Preliminary Geological Map by C. F. Gilboy.
7. **Geology of the Sub-Athabasca Basement, Pasfield Lake Area** (74 I). 1:250,000 scale Preliminary Geological Map by C. F. Gilboy.
8. .**Geology of the McLennan-Jaysmith Lakes Area** (NTS 73 P). 1:63,360 scale Preliminary Geological Map by J. F. Lewry.
9. **Precambrian Mapping Index, 1983 edition.** 1:1, 267, 000 scale index map.

84-1	Not published
84-2	Not published
84-3	Not published
84-4	Not published
84-5	Not published

84-6

Index to Assessment Work in the Southern Mining District of Saskatchewan, by Anne Fuzesy.

See Figure14 for the area of the Southern Mining District.

26 pages. This index is designed to inform the users, particularly those interested in the sedimentary area of the province, of the data available to them in the files of the Saskatchewan Geological Survey of the Department of Energy and Mines.

The files listed in this index are those that have been submitted to the department by industry in compliance with the requirements of the Regulations under the Mineral Resources Act in their search in southern Saskatchewan for a variety of industrial minerals (potash, sodium sulphate, clay, bentonite, sand and gravel) as well as for coal, base metals and uraniferous lignite. These files contain records and logs of drill holes; maps and reports of geological, geophysical and geochemical surveys; assays, analyses and test results.

Entries in this index are grouped according to the numeric and alphabetic system of the National Topographic System grid as well as, where applicable, by land descriptions (Legal subdivision, Section, Township, Range, Meridian) or by latitudes and longitudes.

See also Miscellaneous Reports 79-4, 79-5, 82-10.

Open Files, Provincial

The following open file reports of the Saskatchewan Geological Survey contain unedited information of a provisional nature or restricted interest and content. The Department of Energy and Mines assumes no liability for errors. Opinions expressed are solely those of the author(s).

OF 79-1
Evaluation of Techniques for Assessing the Uranium Potential of Lake-covered Areas, by G. R. Parslow and H. Stolz, 1983. NTS Areas: 74H,-N,-O, -P. 102 pages, 6 tables, 20 figures, 69 maps.
Keywords: Saskatchewan; NTS 74H,-N,-O, P; Geochemistry; Geophysics; Uranium; Exploration; Radon; Base metals; Resistivity; Water quality; Bathymetry; Navigation.
This open file report is available for viewing only at the Resident Geologists Offices in Creighton and La Ronge, and at the Publications Office in Regina.

Copies of this report (text and maps are available separately) may be obtained at the users expense from: Regina Fast Print, 1639 Broad St., Regina, Saskatchewan, S4P 1X3, Phone (306) 359-1944.

OF 79-2
Assessment of the Technical and Economic Feasibility of Peat Resource Development in Northern Saskatchewan Communities. by Saskmont Engineering. 219 pages, 18 tables, 56 figures, 8 maps.

OF 81-1
Geology of the La Ronge-Hunter Bay-Cartier Lake Area, by L. H. Forsythe. 20 pages accompanied by six 1:50,000 scale maps (monochrome diazo prints): one geological map and one major structural features map for each of NTS areas 73-P-1, 73-P-2 and 73-P-3(E.).

This open file report is available for viewing and copying at the Publications Office, Regina, and for **viewing only** at the Resident Geologists Offices in La Ronge and Creighton. Xerox copies may be obtained by arrangement with the Publications Office.

OF 81-2
Buffalo Narrows Peat Utilization Study. by Saskmont Engineering. 205 pages, 25 tables, 12 plates, 4 appendices.

OF 82-1
Geology of the Lowe Lake (East) Area, NTS 740-7(E.), by G. L. Colborne. Consists of a single 1:31,680 scale geological map with marginal notes (monochrome diazo print). This map is available for viewing and copying at the Publications Office, Regina, and the Resident Geologist's Office in La Ronge and **for viewing only** at the Resident Geologist's Office in Creighton.

OF 82-2
Metamorphism in the Canadian Shield of Northern Saskatchewan, by C. J. Rees. 136 pages, 3 appendices, 2 tables, 21 figures (including 3 maps). This is a thesis submitted to the Faculty of Graduate Studies and Research in partial fulfilment of the requirements for the Degree of Master of Science in Geology, Faculty of Science, University of Regina.

This open file report is available for viewing and copying at the Publications Office, Regina and at the Resident Geologist's Office in La Ronge and for **viewing only** at the Resident Geologist's Office in Creighton.

OF 82-3
Classification of Clastic Metasediments, by C. F. Gilboy. 33 pages, 42 tables, 20 figures. This open file report is available for viewing and copying at the Publications Office, Regina and at the Resident Geologist's Office in La Ronge and **for viewing only** at the Resident Geologist's Office in Creighton.

OF 82-4
Geology of the Southend Area, by W. G. Q. Johnston. NTS Area 64-D-6. 151 pages, 4 figures. 4 1:63,360 scale maps: 145A Geology; 145B Quaternary Geology; 145C Bedrock Geochemical Sample Locations; 145D Overburden Geochemical Sample Locations.
Keywords: Precambrian; Southend; Kisseynew Gneisses; Biotite Gneiss Group; ultramafic flows; staurolite; Cretaceous; Quaternary; Tabbernor Lake Fault; mylonite; meteorite crater; geochemistry; base metals; gold; graphite.

This open file report is available for viewing only at the Resident Geologists Offices in Creighton and La Ronge, and at the Publications Office in Regina.

Maps 145A and 145B are printed in colour as separates and are available only from the Resident Geologists Offices in Creighton and La Ronge, and at the Publications Office in Regina.

Copies of this Open File (including monochrome diazo prints of Maps 145C and 145D but excluding Maps 145A and 145B) are available at the users expense only from: Regina Fast Print, 1639 Broad St., Regina, Sask., S4P 1X3, Phone (306) 359-1944.

OF 82-5
Coal Resources of Southern Saskatchewan: Catalogue of Late Cretaceous-Cenozoic Formation and Coal Seam Boundaries, by P. L. Broughton. The open file comprises 6 microfiche cards containing detailed tabulations of borehole locations, surface elevations, Tertiary coal zone and seam elevations, thicknesses and depths and the elevations of Upper Cretaceous Formations wherever applicable. Approximately 1200 borehole entries are represented from the region of Southern Saskatchewan underlain by the Tertiary Ravenscrag Formation.
See also Report 209 which this Open File complements.

OF 82-6

Mineral Occurrences in the Precambrian of NTS Areas 63K and 63L, Saskatchewan.

Compiled under contract by the University of Regina, by F. H. McDougall, B. R. Watters and G. R. Parslow. 492 pages, 24 maps (diazo prints). This open file comprises all non-confidential data, up to March 1979, located in Saskatchewan in NTS areas 63-K-5,-12,-13, and 63-L-8 to -16. Data are incorporated in deposit descriptions and geophysical descriptions numbered sequentially per map sheet, and illustrated in abbreviated form on the scale of 1:50,000 (taken from a 1:125,000 scale compilation map prepared by R. Macdonald). Two maps are presented for each NTS area. The first is a compilation of data on the size, type, mineralogy and commodity of mineral deposits, while the second shows the locations of geophysical surveys. Data on sand and gravel deposits in the area are not included. SI units are used throughout (with Imperial units in parenthesis). For the precious metals grams per tonne (g/t) replaces Troy ounces per ton (oz./ton). Some assessment files do not describe deposit mineralogy - consequently relevant map data are likewise incomplete. All assay information is listed in deposit descriptions; however, only those commodities that returned positive assay results are shown on the maps. Since pyrite and/or pyrrhotite are virtually ubiquitous in the volcanic rocks of the region, some minor barren sulphide occurrences are not included.

This open file report is available for **viewing only** at the Saskatchewan Geological Survey offices in Creighton and La Ronge, and at the Publications Office in Regina. Copies may be obtained at the users expense from: Regina Fast Print, 1639 Broad St., Regina, Saskatchewan, S4P 1X3, Phone (306) 359-1944.

OF 83-1

Geology of the Royal Lake and Laird Lake (East) Areas, by W. G. Q. Johnston. NTS Areas 64D-3 and 63M-14(E). 80 pages, 1 figure. Four 1:63,360 scale monochrome maps:

- **83-1A Geology of the Royal Lake Area,**
- **83-1B Geology of the Laird Lake (East) Area,**
- **83-1C Quaternary Geology of the Royal Lake Area,**
- **83-1D Quaternary Geology of the Laird Lake (East) Area.**

Keywords: Precambrian; Royal Lake; Laird Lake (East); 64D-3; 63M-14(E); bedrock; Quaternary map; Older Gneiss Complex; Kisseynew Gneisses; Tabbernor Lake Fault; Lake Agassiz; Cree Lake Moraine; strandlines; sulphides; mineral exploration.

This report is available for **viewing only** at the Resident Geologist's Offices in Creighton and La Ronge, and at the Publications Office in Regina.

Copies of the report (including monochrome diazo prints of the maps) are available at current rates by arrangement with:

Regina Fast Print
1639 Broad St.
Regina, Sask., S4P 1X3
Telephone (306) 359-1944.

Open Files, Federal - Provincial

The following open files (OF) and geophysical series maps are those resulting from joint programs of the Geological Survey of Canada (GSC) and the Saskatchewan Geological Survey (SGS). The open file numbers and the geophysical series map numbers shown are GSC numbers.

These open files and geophysical series maps are the preliminary results of survey programs of various types and, as such, they do not adhere to a single standard format. Generally they consist of the preliminary end product of the particular survey (e.g., contour maps, profiles, field notes, tables, etc.).

The following open files and geophysical series maps are generally available for **inspection only** at the Saskatchewan Department of Energy and Mines (SEM) offices in Creighton and La Ronge and for inspection and reproduction only at the Regina office. The Canada Department of Energy, Mines and Resources (EMR) maintains its own separate system for inspection and reproduction of these open files.

Firm prices cannot be assigned to the individual open files but in general they are available at reproduction and handling cost.

Federal-Provincial Uranium Reconnaissance Program — Saskatchewan Airborne Gamma Ray Spectrometry. The airborne gamma ray spectrometer survey of each of the areas listed in the following table are presented as:
(i) Contour maps of : total count, potassium, equivalent uranium and equivalent thorium concentrations, and eU/eTh, eU/K, eTh/K ratios and;
(ii) Stacked profiles of the seven radiometric parameters listed above and the uncorrected total magnetic field strength for each of the flight lines.

Area	Title	Year of Survey	Number of Open File or Geophysical Series	Scale	Flight line spacing in km	Number and direction of flight lines
Precambrian area	Northern Saskatchewan 53°-60° N. Lat.	1973	OF 169	1:1,000,000 (maps) 1:250,000 (profiles)	50.0	16, E-W
63-K	Cormorant Lake	1978	36163G	1:250,000	5.0	26, N-S
63-L (North Half)	Amisk Lake	1978	36263G	1:250,000	5.0	26, N-S
63-L,-M (parts)	Jan Lake	1979	OF 719	1:20,000	0.3	45, E-W
63-M	Pelican Narrows	1978	36363G	1:250,000	5.0	26, N-S
63-N	Kississing	1978	36463G	1:250,000	5.0	25, N-S
64-D	Reindeer Lake South	1977	35464G	1:250,000	5.0	25, N-S
64-E	Reindeer Lake North	1975	OF 309	1:250,000	5.0	23, E-W
64-L	Wollaston Lake	1975	OF 310	1:250,000	5.0	24, N-S
64-L(S.W.)	Wollaston Lake	1974	OF 242	1:250,000	1.6	38, E-W
64-L-12(W.) 64-L-13(W.)	Hatchet Lake	1974	OF 258	1:50,000	0.8	73, E-W
64-M	Phelps Lake	1974	OF 257*	1:250,000	5.0	25, E-W
64-M-1	Hara Lake	1976	OF 455	1:50,000	1.0	30, N-S
72-F(9-16), 72-G(11-14), 72-J(3, 4), 72-K(1-4).	Cypress	1976	35672G	1:250,000 (maps) 1:500,000 (profiles)	5.0	14, E-W
73-I (N.E. Corner)	Wapawekka	1978	35973G	1:250,000	5.0	7, N-S
73-O	Ile-a-la-Crosse	1976	36573G	1:250,000	5.0	22, E-W
73-P(W.)	La Ronge	1976	36673G	1:250,000	5.0	22, E-W
73-P(E.)	La Ronge	1978	36673G	1:250,000	5.0	13, N-S
74-A	Foster Lake	1975	OF 311	1:250,000	5.0	22, E-W
74-B	Mudjatik	1976	35274G	1:250,000	5.0	23, E-W
74-C	La Loche	1976	35374G	1:250,000	5.0	23, E-W
74-F	Lloyd Lake	1975	OF 314	1:250,000	5.0	23, E-W
74-G	Cree Lake	1975	OF 312	1:250,000	5.0	23, E-W
74-H	Geikie River	1975	OF 313	1:250,000	5.0	22, E-W
74-N	Tazin Lake	1974	OF 257*	1:250,000	5.0	25, E-W
74-O	Fond du Lac	1974	OF 257*	1:250,000	5.0	25, E-W
74-P	Stony Rapids	1974	OF 257*	1:250,000	5.0	25, E-W
74-P-1,2, -3,(E.)	Black Lake	1974	OF 259	1:50,000	0.8	99, N-S

*OF 257: Two NTS Areas on each of two sheets — 64-M & 74-P and 74-N & 74-O.

266

Regional Lake Sediment Geochemical Reconnaissance Data, East Central Sask. (63-M, 64-D and parts of 73-I,-O,-P and 74-A). Examination points: SEM offices in Regina, La Ronge, and Creighton. Copies: Regina. Analytical data from which the material was prepared are also available on tape -enquiries should be sent to the Computer Science Centre, EMR, Ottawa.

488

Regional Lake Sediment Geochemical Reconnaissance Data, East-Central Sask. (63-M, 64-D and parts of 63-K,-L,-N; 73-I,-O,-P; 74-A), 12 maps and data list. Examination points: SEM offices in Regina, La Ronge and Creighton. Copies: Regina office. Digital data - inquire at Computer Science Centre, EMR, Ottawa, or SEM, Regina.

494

Gradiometer Survey over Athabasca Sandstones, Sask. Examination points: SEM offices in Regina, La Ronge and Creighton. Copies: Regina.

508

National Geochemical Reconnaissance Release NGR 19-1977, Regional Lake Sediment and Water Geochemical Reconnaissance Data, Northeastern Sask. (64-L,-M). Examination points: SEM offices in Regina, La Ronge and Creighton. Copies: Regina.

529

Canada-Saskatchewan Uranium Reconnaissance Program, Aeromagnetic Gradiometer Survey, Athabasca Basin, Sask. (parts of 74-H-3,-4,-5), scale: 1:25,000. Examination points: SEM offices in Regina, La Ronge and Creighton. Copies: Regina.

530

Canada-Saskatchewan Uranium Reconnaissance Program, Aeromagnetic Gradiometer Survey, Athabasca Basin, Sask. (parts of 64-E-13,-L-4; 74-H-16,-I-1), scale: 1:25,000. Examination points: SEM offices in Regina, La Ronge and Creighton. Copies: Regina.

531

Canada-Saskatchewan Uranium Reconnaissance Program, Aeromagnetic Gradiometer Survey, Athabasca Basin, Sask. (parts of 64-L-4,-5; 74-I-1,-8), scale: 1:25,000. Examination points: SEM offices in Regina, La Ronge and Creighton. Copies: Regina.

678

Regional Water Well Reconnaissance Data, Cypress Hills, Sask. (72-F; 72-K-1,-2). Joint Canada-Saskatchewan contribution to the Uranium Reconnaissance Program, by W. Dyck. Examination point: SEM, Regina, Copies: SEM, Regina. Field observations and laboratory analyses also available in digital form from: Computer Science Centre, EMR, Ottawa.

683

Gold in Lake Sediments, Regional Lake Sediment Geochemical Reconnaissance Data, East-Central Saskatchewan (part 64-D). Examination points: SEM offices in Regina and Creighton. Copies: Regina.

779

Lake Water and Sediment: Nuclear Energy Agency - International Atomic Energy Agency Athabasca Basin - Wollaston Lake test area, Sask. (64-L, 74-I), by W. B. Coker and C. E. Dunn. Examination points: SEM offices in Regina, La Ronge and Creighton. Copies: Regina.

Saskatchewan Research Council Reports

1 Out of print.

Geology and Ground-Water Resources of the Qu'Appelle Area, Saskatchewan, by E. A. Christiansen, 1960. 62-K(part) and 62-L. 53 pages, 3 tables, 25 figures. Two maps: geology, groundwater resources, 1:250,000, in pocket.

2 Out of print.

Geology and Ground-Water Resources of the Regina Area, Saskatchewan, by E. A. Christiansen, 1961. 72-I. 72 pages, 3 tables, 25 figures. Three maps: geology, bedrock topography, groundwater resources, 1:250,000, in pocket.

3

Geology and Groundwater Resources of the Wynyard Area (72-P) Saskatchewan, by J. E. Greer and E. A. Christiansen, 1963. 55 pages, 5 tables, 20 figures. Two maps: geology, bedrock surface topography, in pocket.

4 Out of print.

Geology of the Willow Bunch Lake Area (72-H), Saskatchewan, by R. R. Parizek, 1964. 46 pages, 3 tables, 29 figures. Three maps: geology, bedrock topography, physiographic sketch, 1:250,000, in pocket.

5

Foraminifera from the Cretaceous Lea Park Formation in South-Central Saskatchewan, by B. R. North and W. G. E. Caldwell, 1964. 43 pages, 4 plates, 3 figures.

6

Distribution of Nickel, Copper and Zinc in Bedrock of the East Amisk Area, Saskatchewan, by J. R. Smith, 1964. 34 pages, 3 tables, 5 figures. 1 frequency distribution histogram; 1 geological map, 1:63,360, and 3 geochemical overlays, in pocket.

7 Out of print.

Geology and Groundwater Resources of the Kindersley Area (72-N) Saskatchewan, by E. A. Christiansen, 1965. 25 pages, 2 tables, 7 figures. Eight plates: geology, 1:250,000, bedrock geology and topography, x-ray diffraction patterns, structure contours and thickness of the Oldman Formation, lithologic logs, drift thickness, glacial history, groundwater resources, in pocket.

8

The Late Cretaceous Bearpaw Formation in the South Saskatchewan River Valley, by W. G. E. Caldwell, 1968. 86 pages, 2 tables, 16 figures.

9

Foraminifera from the Late Cretaceous Bearpaw Formation in the South Saskatchewan River Valley, by B. R. North and W. G. E. Caldwell, 1970. 117 pages, 6 plates, 7 figures.

10

Geology and Geochemistry of the Hanson Lake Area, Saskatchewan. Part I - Geology, by L. C. Coleman and J. W. Gaskarth; **Part II -Geochemistry,** by J. R. Smith, 1970. 156 pages, 4 tables, 54 figures. 1 geological map, 3 geochemical (nickel, copper, zinc) maps, 1:15,840, one Ni, Cu & Zn vs. Fe scatter plots and one frequency distribution graphs of Fe, Ni, Cu & Zn in various rock types.

11

Stratigraphy of the Upper Cretaceous Judith River Formation in the Canadian Great Plains, by J. R. McLean, 1971. 96 pages, 16 tables, 44 figures; one plate (of 6 borehole logs and measured sections) in pocket.

12

Geochemistry of Bedrock, Overburden, Lake and Stream Sediments in the Mudjatik Area, Saskatchewan, by D. R. Haughton, R. G. Arnold and J. W. J. Smith, 1973. 24 pages, 30 tables, 10 figures; 13 maps, 1:126,720, in pocket.

13

Trace Element Concentrations in Unconsolidated Sediments Associated with a Mineralized Boulder Train, Fable Lake Area, Saskatchewan, by D. R. Haughton, 1973. 16 pages, 4 maps, 2 appendixes, 15 tables, 7 figures.

14

Collection, Analysis and Computer-Based Documentation of Geochemical Samples in the Precambrian of Saskatchewan, by D. R. Haughton and J. W. J. Smith, 1974. 9 pages, 1 table, 4 figures.

15

Geochemistry of Bedrock, Overburden, Lake and Stream Sediments in the Stanley Area (West Half), Saskatchewan, by D. R. Haughton, 1975. 73-P-7-W. 30 pages, 22 tables, 16 figures. 12 geochemical maps, 1;63,360; 1 geological map, 1:126,720; and 1 elevation and glacial direction map, 1:253,440, in pocket.

16

A Multiple Media Geochemical Survey of a Boulder Train Associated with the George Lake Lead-Zinc Deposit, Saskatchewan, by D. R. Haughton, 1976. 59 pages, 12 tables, 45 figures.

17

A Multiple Media Geochemical Survey of a Boulder Train Associated with the Duddridge Lake Uranium Deposit, by D. R. Haughton, 1976. 55 pages, 9 tables, 8 figures, 17 maps.

18*

Bibliography and Index of Coal in Saskatchewan and Adjoining Provinces and States, by C. A. Pilon, 1977. 85 pages.

* Available only from the Saskatchewan Research Council, 30 Campus Drive, Saskatoon, Sask., S7N 0X1 — not available from Saskatchewan Energy and Mines.

19*

SRC Observation Wells in Saskatchewan, Canada, by W. A. Meneley, H. Maathuis, E. J. Jaworski and V. F. Allen, 1979. Published in the form of three separate books available only as one combined report:

- **Introduction, Design, and Discussion of Accumulated Data, 1964-1977.** 83 pages, 5 tables, 12 figures. 46 wells.
- **Volume 1 - Accumulated Data for SRC Observation Wells, Atton's Lake-Hearts Hill, 1964-1977.** 221 pages.
- **Volume 2 - Accumulated Data for SRC Observation Wells, Lilac-Yorkton 519, 1964-1977.** 209 pages.

* Available only from the Saskatchewan Research Council, 30 Campus Drive, Saskatoon, Sask., S7N 0X1 — not available from Saskatchewan Energy and Mines.

20*

Coal Resources of Southern Saskatchewan: A Model for Evaluation Methodology, by S. H. Whitaker, J. A. Irvine and P. L. Broughton, 1978. A joint release by the Saskatchewan Research Council (Report 20)*, the Geological Survey of Canada (Economic Geology Report 30) and the Saskatchewan Geological Survey (Report 209). Printed in two parts - not available as separates:

Part I - Text, 151 pages, 39 tables, 108 figures;

Part II - Atlas (38 × 56 cm), 56 plates.

* Copies of this report are not available from the Saskatchewan Research Council.

21*

Quality and Occurrence of Coal in Southern Saskatchewan, Canada. Volume I: Introduction to Data Acquisition and to Associated Computer Processable Files, by J. H. Dyck, C. T. McKenzie, T. E. Tibbetts and S. H. Whitaker, 1979. 117 pages, 43 tables, 56 figures.

* Available only from the Saskatchewan Research Council, 30 Campus Drive, Saskatoon, Sask., S7N 0X1 — not available from Saskatchewan Energy and Mines.

Saskatchewan Geological Society Reports

Special Publication Number 1 Out of print.
An Excursion Guide to the Geology of Saskatchewan. Summer, 1973, Edited by Frank Simpson. 455 pages, 18 articles, 12 tables, 156 figures.

Reprints from An Excursion Guide to the Geology of Saskatchewan, edited by Frank Simpson, Saskatchewan Geological Society, Special Publication No. 1, Summer 1973

1. **Geological and Mineral Exploration in Saskatchewan: A Precis of its History to 1970,** by W. O. Kupsch.
2. **General Geology of the Lac la Ronge Region (73-P), Saskatchewan,** by L. H. Forsythe.
3. **Progress Report on the Geology of the Wollaston Lake Belt,** by B. P. Scott.
4. **Introduction to the Palaeontology of Saskatchewan,** by D. F. Paterson.
5. **Outline of the Geology of Southern Saskatchewan,** by D. M. Kent and F. Simpson.
6. **Geological Techniques Applied to Engineering Practice in Southern Saskatchewan,** by E. K. Sauer.
7. **The Mineral Endowment of Saskatchewan,** by F. Simpson.
8. **Geological Road Log of the Winnipeg and Interlake Areas, Manitoba,** by J. E. Christopher, D. M. Kent and H. R. McCabe.
9. **Geological Road Log of the Lakes Winnipegosis and Manitoba Area, Manitoba,** by D. M. Kent and D. F. Paterson.
10. **Geological Road Log of the Hanson Lake Road-Flin Flon Area, Saskatchewan-Manitoba,** by J. E. Christopher and D. M. Kent.
11. **Geological Road Log of the Montreal Lake-Wapawekka Hills Area,** by J. E. Christopher, D. M. Kent and F. Simpson.
12. **Tour of the Estevan Coalfield,** by P. Guliov.
13. **Geological Road Log of the Avonlea-Big Muddy Valley Area,** by D. M. Kent and L. W. Vigrass.
14. **Geological Road Log of the Cypress Hills-Milk River Area, Southeastern Alberta,** by D. M. Kent and F. Simpson.
15. **Upper Cretaceous and Tertiary Stratigraphy of the Swift Current-Cypress Hills Area,** by S. H. Whitaker and J. A. Vonhof.
16. ***Geological Road Log for Saskatchewan Highway 2: La Ronge to Reindeer Lake,** by L. H. Forsythe.
17. ***Northern Saskatchewan Uranium Tour: La Ronge-Rabbit Lake-Beaverlodge-Cluff Lake,** by A. J. Gracie and T. H. de Zoysa.
18. ***Geology and Ores of the Hanson Lake, Flin Flon and Snow Lake Areas of Saskatchewan and Manitoba,** by L. C. Coleman, E. Froese, I. E. Hutcheon, D. P. Price, D. F. Sangster and M. R. Stauffer.

* Out of print

Special Publication Number 2 Out of print.
Fuels: A Geological Appraisal. Proceedings of Symposium, Nov. 7, 8, 1974, Regina, Sask. Edited by G. R. Parslow. 244 pages, 14 articles, 7 tables, 67 figures.

Special Publication Number 3 Out of print.
Uranium in Saskatchewan. Proceedings of Symposium, Nov. 10, 1976, Regina, Sask. Edited by C. E. Dunn. 396 pages, 17 articles, 1 plate, 22 tables, 109 figures.

Special Publication Number 4
Uranium Exploration Techniques. Proceedings of Symposium, Nov. 16, 17, 1978, Regina, Sask. Edited by G. R. Parslow. 340 pages, 15 articles, 21 tables, 90 figures.

Special Publication Number 5
Lloydminster and Beyond: Geology of Mannville Hydrocarbon Reservoirs. Proceedings of Conference and Core Seminar, Oct. 15-17, 1980, Regina, Sask. Edited by L. S. Beck, J. E. Christopher and D. M. Kent. 268 pages, 13 articles, 10 plates, 8 tables, 132 figures.

Special Publication Number 6
Fourth International Williston Basin Symposium Volume. Proceedings of a symposium held Oct. 5, 6, 7, 1982, Regina, Sask., together with the North Dakota Geological Society. Edited by J. E. Christopher and J. Kaldi. 326 pages, 40 articles, 12 tables, 397 figures.

Reprints

No charge

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These reprints are available on request at no charge for the first copy of any title or titles — if more than one copy of any title or titles are requested a charge will be made for the additional copies.

Beck, L. S. and Gingrich, James E. **Track Etch Orientation Survey in the Cluff Lake Area, Northern Saskatchewan.** Printed in *The Canadian Mining and Metallurgical Bulletin*, May, 1976.

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Cumming, G. L. and Scott, B. P. **Rb/Sr Dating of Rocks from the Wollaston Lake Belt, Saskatchewan.** Printed in the *Canadian Journal of Earth Sciences*, Vol. 13, No. 2, 1976, pp. 355-364.

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Dunn, Colin E. **Saskatchewan Potash in 1975 -An Update on our Knowledge.** Printed in the *Proceedings Volume, Eleventh Forum on the Geology of Industrial Minerals*, June 18-20, 1975, Kalispell, Montana Montana Bureau of Mines and Geology Special Publication 74, 1976, pp. 51-60.

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Gingrich, James E. and Beck, L. S. **Track Etch Orientation Survey in the Cluff Lake Area, Northern Saskatchewan.** Printed in *The Canadian Mining and Metallurgical Bulletin*, May, 1976.

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Karvonen, D. A. **The Saskatchewan Potash Prorationing and Price Stabilization Program.** Printed in *CIM Transactions:* Vol. LXXVI, 1973, pp. 65-70.

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Kendall, Alan C. **Facies Models 11. Continental and Supratidal (Sabkha) Evaporites.** Printed in *Geoscience Canada*, Vol. 5, No. 2, June, 1978, pp. 66-78.

Kendall, A. C. **Origin of Dolomite Mottling in Ordovician Limestones from Saskatchewan and Manitoba.** Printed in the *Bulletin of Canadian Petroleum Geology*, Vol. 25, No. 3, June, 1977, pp. 480-504.

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Geological Maps

Geological Map of Saskatchewan*

Scale: 1:1,267,200 (one inch to twenty miles).
Joint Production, 1972:
Sedimentary Area: Saskatchewan Research Council
Precambrian Area: Department of Energy and Mines

Formations and rock groups are interpreted by means of explanation keys giving the age and composition of the rocks indicated by the symbols and variously coloured parts of the map. Five pre-glacial buried stream valleys are located. The comprehensive coverage of the map is enhanced by descriptive notes and two small inset maps, one of the physiographic divisions, the other of geological maps previously published.

* A copy of this map is included in SEM Report 9.

Geological Map of Saskatchewan*

Scale: 1:1,000,000
Provisional edition, 1980:
Phanerozoic Geology compiled by P. Broughton;
Precambrian Geology compiled by R. Macdonald

In two sheets sold together — not available as separate South and North sheets.

* A copy of this map is included in Miscellaneous Report 80-4.

Geological Map Separates

The following list of maps included in Saskatchewan Geological Survey Reports are also available as separates.

In the following descriptions the references are to: the map number (and also to the Report number); title; map type; publication year; NTS area of the map; map scale.

31A, Deschambault Lake, geology, 1958, 63-L-14-E., 1:63,360.

34A, Forbes Lake, geology, 1959, 73-P-15, 1:63,360.

35A, Wapus Bay, geology, 1959, 64-D-9-W., 1:63,360.

39A, Oliver Lake, geology, 1961, 64-D-14-E., 1:63,360.

40A, Wapus Bay, geology, 1960, 64-D-9-E., 1:63,360.

41A, Otter Lake, geology, 1960, 73-P-10-W., 1:63,360.

42A, Trout Lake, geology, 1960, 73-P-11-E., 1:63,360.

44A, Tantato Lake, geology, 1960, 74-P-12-E., 1:63,360.

56A, Otter Lake, geology, 1963, 73-P-10-E., 1:63,360.

57A, Deception Lake, geology, 1962, 74-A-9-E., 1:63,360.

58A, Clut Lakes, geology, 1961, 74-P-5-E., 1:63,360.

59A, Astrolabe Lake, geology, 1961, 74-P-12-W., 1:63,360.

60A, Barnett Lake, geology, 1961, 74-A-6-W., 1:63,360.

61A, Thainka Lake, geology, 1961, 74-N-13-W., 1:63,360.

62A, Flin Flon, geology, 1965, 63-K-13-N.W., 1:31,680.

62B, Flin Flon, geology, 1965, 63-K-13-S.W., 1:31,680.

62C, Schist Lake, geology, 1965, 63-K-12-N.W., 1:31,680.

62D, Schist Lake, geology, 1965, 63-K-12-S.W., 1:31,680.

68A, Chambeuil Lake, geology, 1962, 74-P-11-W., 1:63,360.

69A, Wiley Lake, geology, 1962, 74-O-8-E., 1:63,360.

70A, Nistowiak Lake, geology, 1962, 73-P-8-E., 1:63,360.

74A, McLean Bay, geology, 1962, 64-E-16., 1:63,360.

77A, Trout Lake, geology, 1963, 73-P-11-W., 1:63,360.

78A, Guncoat Bay, geology, 1966, 73-P-9, 1:63,360.

78C, Lac la Rongo, geology, 1965, 73-P, 1:506,880.

79A, Wiley Lake, geology, 1963, 74-O-8-W., 1:63,360.

80A, Lytle Lake, geology, 1963, 74-P-6-W., 1:63,360.

81A, Harper Lake, geology, 1963, 74-N-12-N., 1:63,360.

86A, Black Bear Island Lake, geology, 1965, 73-P-12-E., 1:63,360.

88A, Eulas Lake, geology, 1965, 73-P-13-W., 1:63,360.

88B, Sandfly Lake-Black Bear Island Lake, geology, 1965, 73-O-9-E & 73-P-12-W.., 1:63,360.

90A, Lytle Lake, geology, 1964, 74-P-6-E., 1:63,360.

91A, Ena Lake, geology, 1965, 74-N-16-E., 1:63,360.

93A, Pelican Narrows, geology, 1964, 63-M-2-E., 1:63,360.

93B, Birch Portage, geology, 1964, 63-L-15, 1:63,360.

93C, Birch Portage, geology, 1964, 63-L-15-N.E. (part), 1:8,000.

103A, Wapawekka Lake, geology, 1967, 73-I-15-N., 1:63,360.

109A, Nekweaga Bay, geology, 1966, 64-E-13-W., 1:63,360.

113A, Maribelli Lake, geology, 1967, 74-A-1-W., 1:63,360.

114A, Ballentyne Bay-Oskikebuk Lake, geology, 1968, 63-L-12-N.E. (part) & 63-L-13, 1:63,360.

114B, Limestone Lake-Viney Lake, geology, 1968, 63-L-11-N. (part) & 63-L-14-W., 1:63,360.

114C, Maynard Lake Anticline, geology, 1968, 63-L-13-N.W. (part) & 63-M-4-S.W. (part), 1:31,680.

114D, Brownell Lake Anticline, geology, 1968, 63-L-13-N. (part) & 63-M-4-S. (part), 1:31,680.

116A, Morell Lake, geology, 1967, 64-E-12-W., 1:63,360.

119A, Trade Lake, geology, 1968, 63-M-5-W., 1:63,360.

122A, Beckett Lake, geology, 1969, 74-H-8-E., 1:63,360.

126B, Beaverlodge Area, uranium deposits, 1969, parts of 74-N-6,-7,-8,-9,-10,-11, 1:85,100.

143A, Glennie Lake, geology, 1977, 63-M-12, 1:63,360.

145A, Southend, geology, 1980, 64-D-6, 1:63,360.

145B, Southend, Quaternary geology, 1980, 64-D-6, 1:63,360.

153A, Milton Island, geology, 1977, 64-D-10-W., 1:63,360.

166A, Mudjatik Area, Southwest Quarter, geology, 1977, 74-B-S.W., 1:100,000.

167A, Thluicho Lake, geology, 1978, 74-N-11 (part), 1:31,680.

168A, Mudjatik, geology, 1977, 74-B-S.E., 1:100,000.

168B, Mudjatik, geology, 1977, 74-B-N.E., 1:100,000.

169A, Hewetson Lake, geology, 1976, 74-A-4-W., 1:63,360.

170A, Sandy Narrows, geology, 1978, 63-M-3-E., 1:63,360.

172A, Marchel Lake-Wintego Lake-Sandy Bay, geology, 1976, 63-M-7,-9,-10 & 63-N-12 (part), 1:100,000.

173A, Pylypow Lake, geology, 1977, 74-A-5-W., 1:63,360.

174A, Pylypow Lake, geology, 1976, 74-A-5-E., 1:63,360.

175A, Manawan Lake, geology, 1976, 63-M-6-S., 1:63,360.

183A, Dipper Lake, geology, 1977, 73-O-14, 1:63,360.

185A, Foster Lake-La Ronge, geology, 1980, 73-P-13-E.,-14 & 74-A-2,-3,-4-E., 1:100,000.

186A, Maynard Lake-Sandy Narrows (West), geology, 1982, 63-M-14 & 63-M-13(W), 1:63,360.

187A, Gilbert Lake, geology, 1979, 63-M-15-W., 1:63,360.

190A, Parker Lake-Nelson Lake, geology, 1980, 74-A-15-E.,-16 & 74-H-1,-2, 1:100,000.

191A, Amiskit Island-Milton Island-Perry Lake, geology, 1979, 64-D-10-E.,-15,-16, 1:100,000.

192A, Ghana Lake, geology, 1980, 64-D-11,-12,-13-W.,-14-W., 1:100,000.

193A, Rottenstone & Dobbin Lakes, geology, 1982, 74-A (part), 1:100,000.

196A, Laird Lake, geology, 1982, 63-M-14-W., 1:31,680.

197A, Highrock Lake-Key Lake, geology, 1977, 74-A-13-14 & 74-H-3,-4, 1:100,000.

198A, Reindeer Lake South, geology, 1980, 64-D-1,-2,-7,-8, 1:100,000.

199A, Spalding Lake, geology, 1980, 64-E-3,-4,-6, 1:100,000.

200A, Reindeer Lake North, geology, 1980, 64-E-1,-2,-7,-8, 1:100,000.

204A, Geikie River, geology, 1980, 74-H-7 and parts of 74-H-6,-8,-9,-10,-16, 1:100,000.

206A, Ballentin Island, Reindeer Lake, geology, 1981, 64-E-N.E. (part), 1:100,000.

208A, Daly Lake and Middle Foster Lake, geology, 1981, 74-A-11-W. (part) and 74-A-12-W., 1:63,360.

211A, Wollaston Lake, Compilation geology, 1983, 64L, 1:250,000.

214A, Carswell Structure, Central Part, geology, 1982, parts of 74-K-5,-6,-11,-12, 1:50,000.

222A, Kohn Lake, geology, 1983, 64-M-S.E., 1:100,000.

228A, Foster Lake, Compilation geology, 1983 74A, 1:250,000.

229A, Geikie River, Compilation geology, 1983, 74H, 1:250,000.

232A, Reindeer Lake North, Compilation geology, 1983, 64E, 1:250,000.

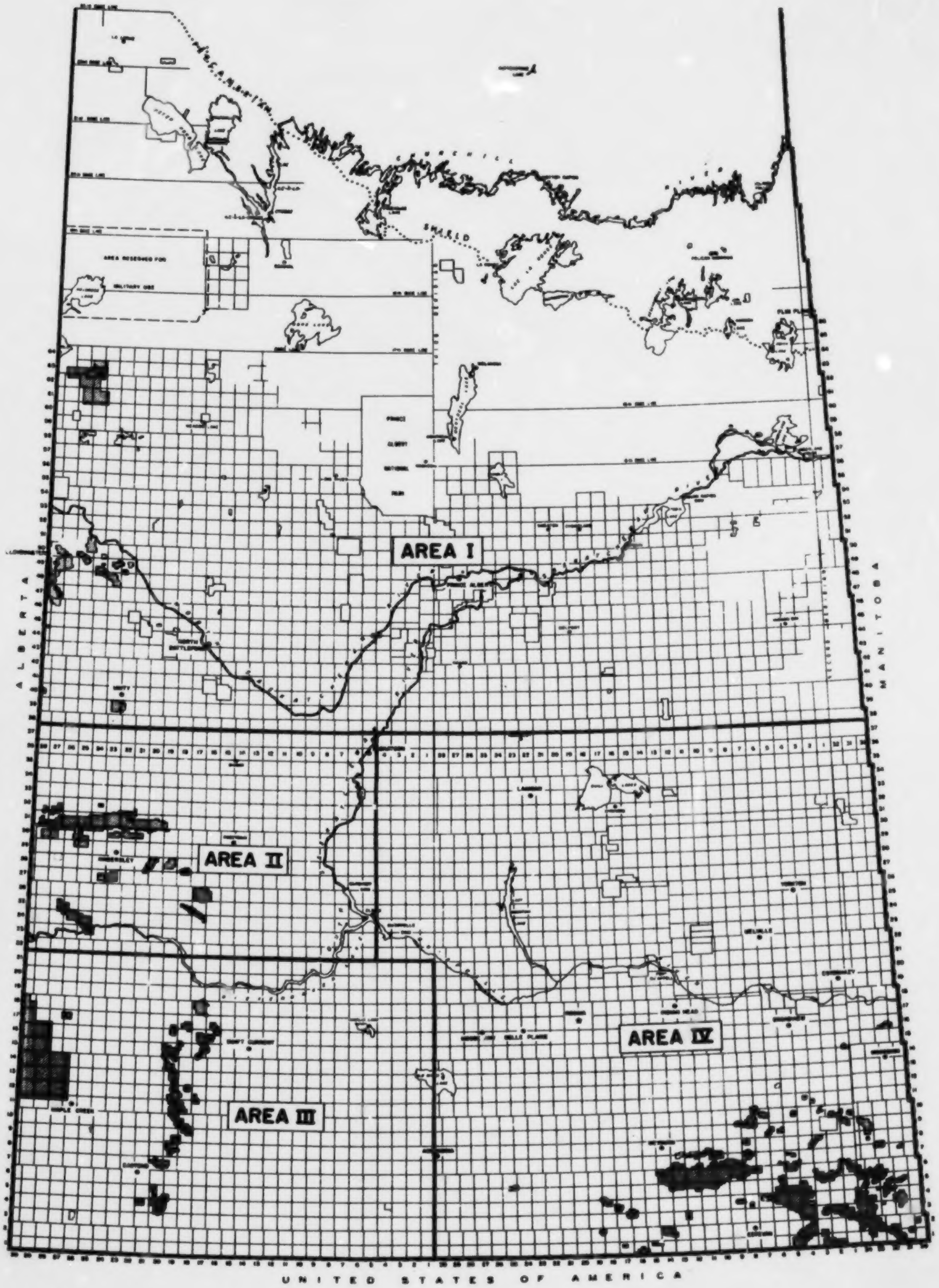
AREA I
AREA II
AREA III
AREA IV
ALBERTA
MANITOBA
CHURCHILL
SHIELD
PRINCE ALBERT NATIONAL PARK
UNITED STATES OF AMERICA

Figure 6 — Map Showing the Boundaries of Petroleum and Natural Gas Production and Disposition Areas.

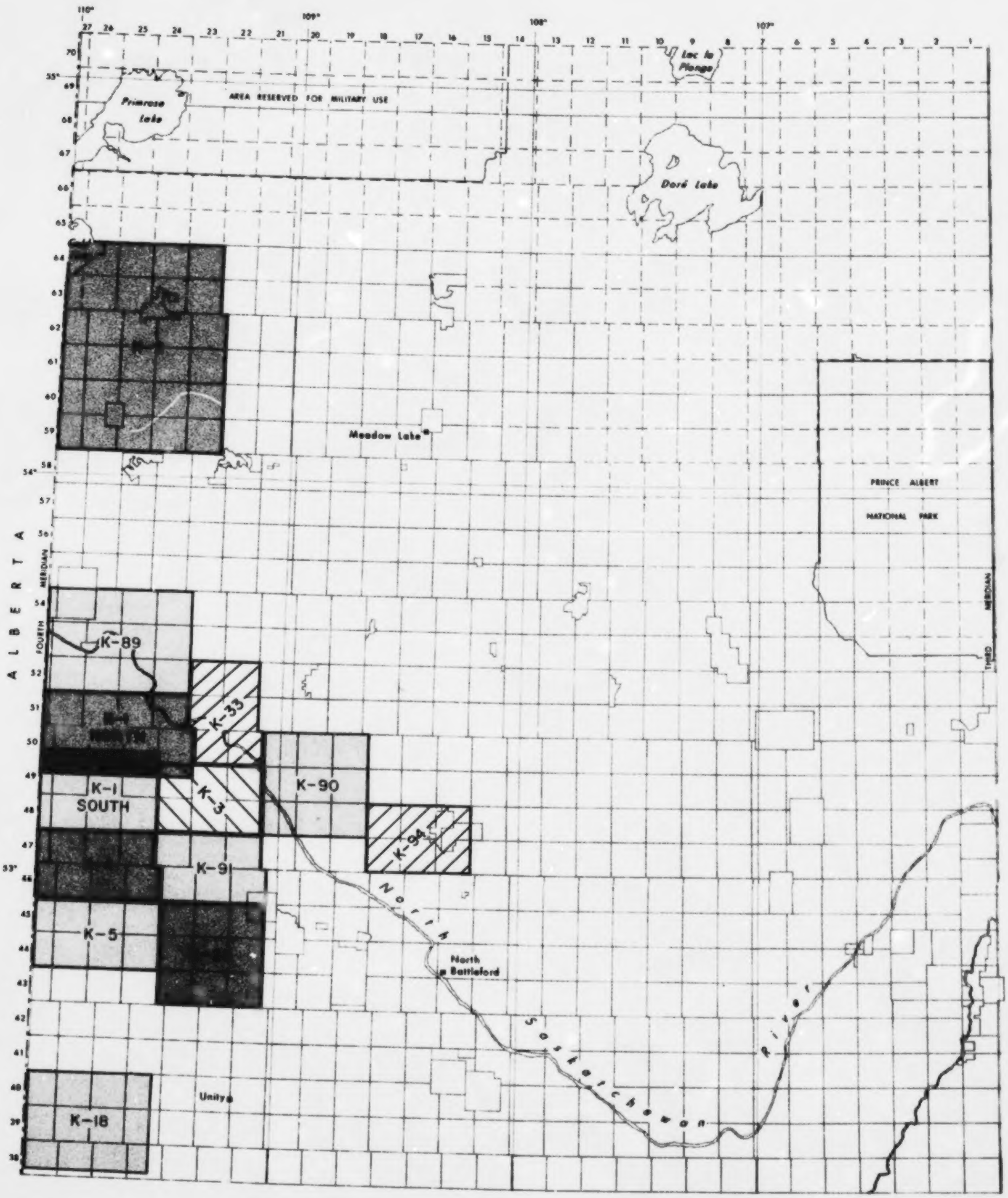
110°
109°
108°
107°
27
26
25
24
23
22
21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
70
55°
69
68
67
66
65
64
63
62
61
60
59
58
54°
57
56
54
52
51
50
49
48
47
53°
46
45
44
43
42
41
40
39
38
Lac la Plonge
Primrose Lake
AREA RESERVED FOR MILITARY USE
Doré Lake
Meadow Lake
PRINCE ALBERT NATIONAL PARK
A L B E R T A
FOURTH MERIDIAN
THIRD MERIDIAN
K-89
K-33
K-90
K-1 SOUTH
K-3
K-94
K-9
K-5
K-18
North Battleford
Unity
North Saskatchewan River

Figure 7 — Index Map of Pool Area Structure Contour Maps in Petroleum and Natural Gas Production and Disposition Area I.

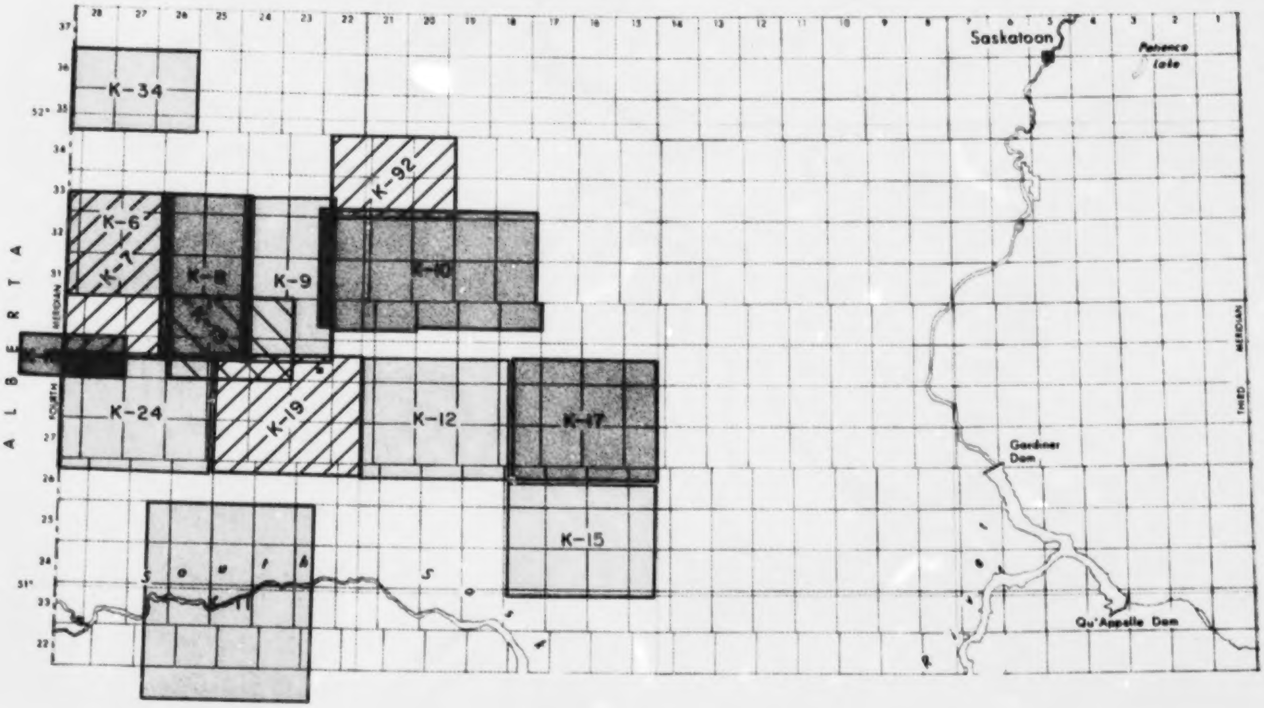
Saskatoon
K-34
K-92
K-6
K-7
K-8
K-9
K-10
K-24
K-19
K-12
K-17
K-15
K-11
ALBERTA
FOURTH MERIDIAN
THIRD MERIDIAN
Gardiner Dam
Qu'Appelle Dam
South Saskatchewan
52°
51°

Figure 8 — Index Map of Pool Area Structure Contour Maps in Petroleum and Natural Gas Production and Disposition Area II.

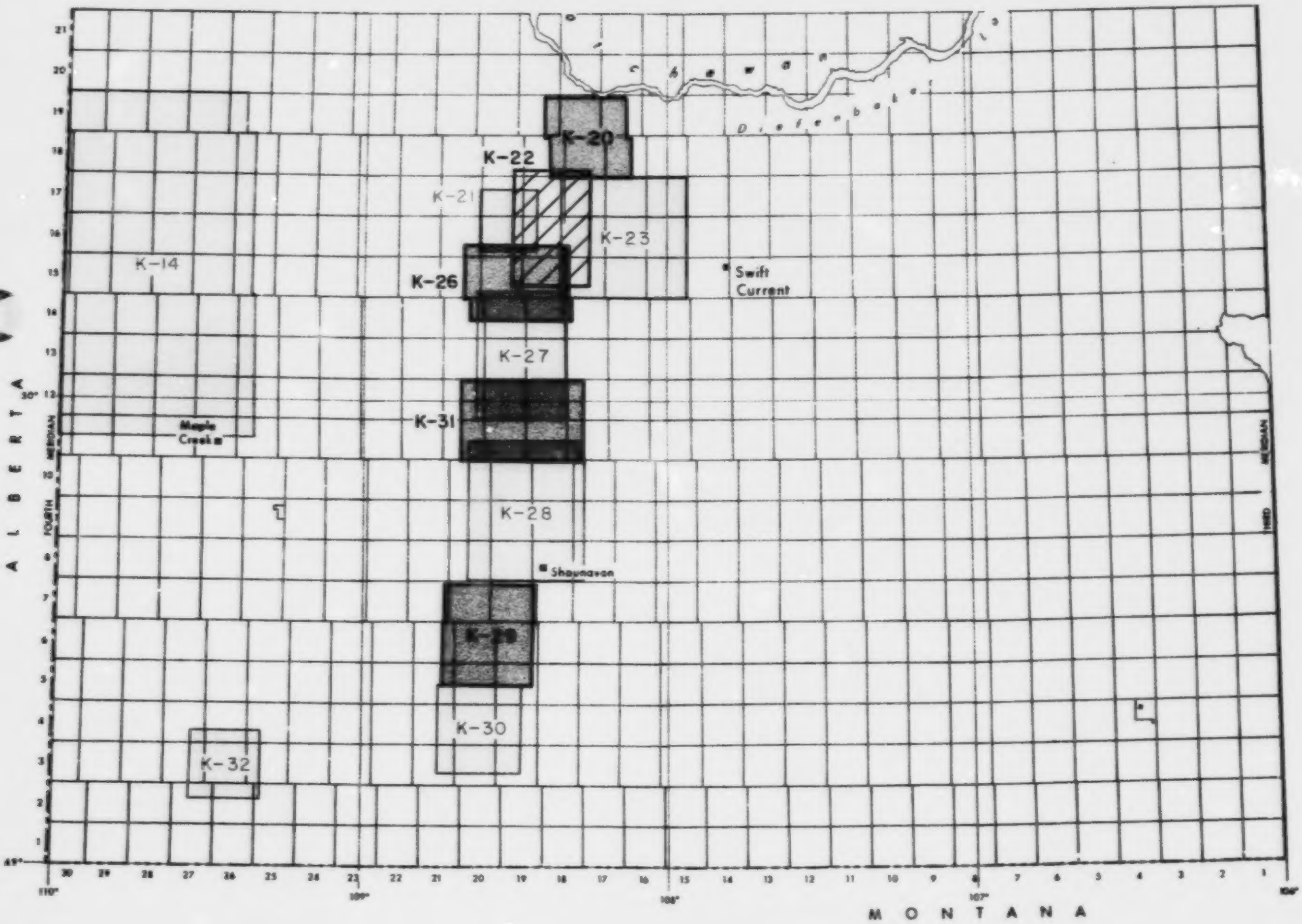
Lake
Diefenbaker
K-20
K-22
K-21
K-23
K-14
K-26
Swift Current
K-27
K-31
Maple Creek
K-28
Shaunavon
K-29
K-30
K-32
ALBERTA
FOURTH MERIDIAN
THIRD MERIDIAN
MONTANA
110°
109°
108°
107°
106°
49°
50°

Figure 9 — Index Map of Pool Area Structure Contour Maps in Petroleum and Natural Gas Production and Disposition Area III.

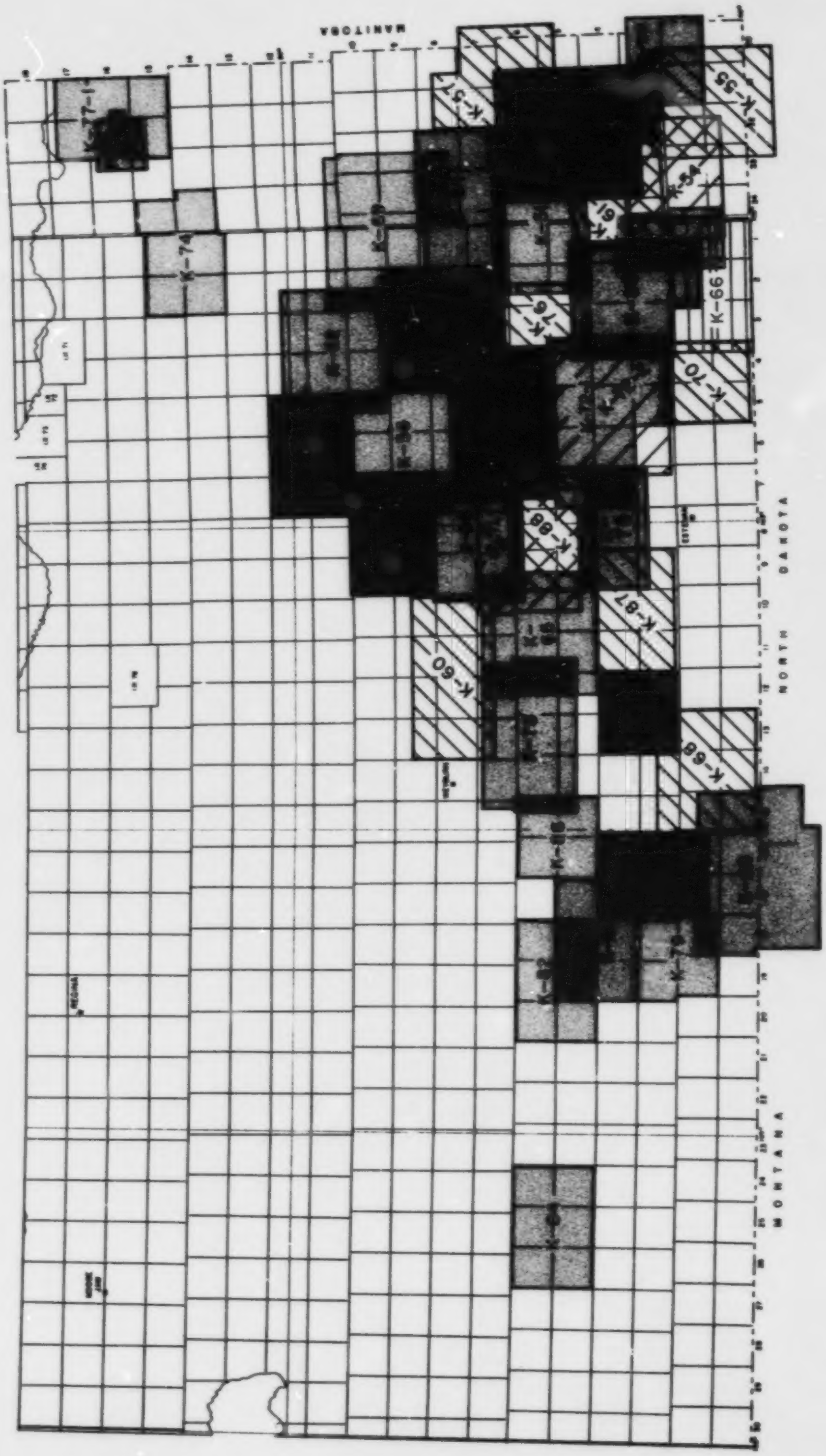
MANITOBA
K-77-1
K-74
K-57
K-55
K-54
K-61
K-66
K-76
K-70
K-88
K-87
K-60
K-68
K-86
ESTEVAN
NORTH DAKOTA
REGINA
MONTANA

Figure 10 — Index Map of Pool Area Structure Contour Maps in Petroleum and Natural Gas Production and Disposition Area IV.

Petroleum and Natural Gas Pool Area Structure Contour Maps

For Production and Disposition Area boundaries see Figure 6

Note: *If the pool name is known then for quick reference to the map(s) pertinent to that pool the* **Pool Index Cross-Reference** *section may be consulted. The section that begins on this page should however be used for the actual ordering of maps — map orders should* **not** *be placed by ordering from the map numbers listed in the* **Pool Index Cross-Reference** *section.*

These maps are updated as information becomes available and because of the necessity for frequent revision, are sold as prints of working drawings only. The quality of the prints available is limited by the fact that the working drawings are prepared in pencil.

Unless otherwise indicated all maps are on a scale of 1:31,680 (one inch to one-half mile) and are contoured on a ten-foot (3.048 m) interval. The specific value contoured is indicated at each control point.

Note: *The Map No. is made up of one letter and at least one number, with several numbers being used in many cases. The first number (e.g. K-4) indicates the sheet on which the map is drawn. The second number (e.g. K-4-1) is used to indicate the horizon mapped on that sheet. The area covered by each sheet (e.g. K-4-1 or K-4-2) would thus be the same in most cases and thus the pools on these sheets would also be the same but the horizon contoured on the two sheets would be different.*

Area I

For map areas see Figure 7

K-1-1 (South) Mannville

K-1-2 (South) Sparky

Aberfeldy Sparky Sand
Big Gully McLaren Sand, South part of
Big Gully Waseca Sand, South part of
Dulwich North Sparky Sand
Dulwich Sparky Sand
Forest Bank Mannville Sands, West part of
Forest Bank Sparky Sand, West part of
Forest Bank Waseca Sand, West part of
Furness Sparky Sand
Landrose McLaren Sand, South part of
Landrose Waseca Sand, South part of
Lashburn West Sparky Sand, North part of
Lloydminster Colony Sand Gas
Lloydminster Sparky Sand, South part of
Northminster Sparky Sand, South part of
Silverdale Sparky Sand
Tangleflags General Petroleum Sand, South part of
Tangleflags Lloydminster Sand, South part of
Tangleflags Mannville Sands, South part of
Tangleflags Sparky Sand, South part of

K-1-1 (North) Mannville

Aberfeldy Sparky Sand, North part of
Big Gully McLaren Sand, North part of
Big Gully Waseca Sand, North part of
Landrose McLaren Sand
Landrose Waseca Sand
Lloydminster Colony Sand Gas, North part of
Lloydminster Sparky Sand
Northminster North General Petroleum Sand
Northminster North Sparky Sand
Northminster Sparky Sand
Pikes Peak General Petroleum Sand, West part of
Pikes Peak Sparky Sand, West part of
Pikes Peak Waseca Sand, West part of
Tangleflags East McLaren Sand, West part of
Tangleflags General Petroleum Sand
Tangleflags Lloydminster Sand
Tangleflags Mannville Sands
Tangleflags North Cummings Sand, South part of
Tangleflags North General Petroleum Sand, South part of
Tangleflags North Lloydminster Sand, South part of
Tangleflags Sparky Sand
Tangleflags West General Petroleum Sand
Tangleflags West Lloydminster Sand
Tangleflags West Sparky Sand

K-1-2 (North) Sparky

Aberfeldy Sparky Sand, North part of
Big Gully McLaren Sand, North part of
Big Gully Waseca Sand, North part of
Landrose McLaren Sand
Landrose Waseca Sand
Lloydminster Colony Sand Gas, North part of
Lloydminster Sparky Sand
Northminster North General Petroleum Sand
Northminster North Sparky Sand
Northminster Sparky Sand
Tangleflags General Petroleum Sand, West part of
Tangleflags Lloydminster Sand, West part of
Tangleflags Mannville Sands, West part of
Tangleflags North Cummings Sand, South part of
Tangleflags North General Petroleum Sand, South part of
Tangleflags North Lloydminster Sand, South part of
Tangleflags Sparky Sand, West part of
Tangleflags West General Petroleum Sand
Tangleflags West Lloydminster Sand
Tangleflags West Sparky Sand

K-2 Mannville

(Scale: 1:63,360)
Beacon Hill Mannville Sand Gas
Pierceland Mannville Sand Gas

K-3 Mannville
Dee Valley East Sparky Sand
Dee Valley East Waseca Sand
Dee Valley Waseca Sand
Forest Bank Mannville Sands, East part of
Forest Bank Sparky Sand, East part of
Forest Bank Waseca Sand, East part of
Golden Lake North Sparky Sand
Golden Lake North Waseca Sand
Golden Lake South Sparky Sand, North part of
Golden Lake South Waseca Sand, North part of
Gully Lake Waseca Sand
Lashburn South Sparky Sand
Lashburn South Waseca Sand
Lashburn Waseca Sand
Low Lake Waseca Sand
Maidstone McLaren Sand, North part of
Maidstone Waseca Sand, North part of
Pikes Peak General Petroleum Sand, South part of
Pikes Peak Sparky Sand, South part of
Pikes Peak Waseca Sand, South part of
Standard Hill Waseca Sand, South part of

K-4-1 Mannville
(Contour Interval: 20 feet)

K-4-2 Sparky
(Contour Interval: 10 feet)

Buzzard Lloydminster Sand
Epping General Petroleum Sand
Epping Sparky Sand
Lashburn West Sparky Sand, South part of
Lone Rock Sparky Sand
Neilburg McLaren Sand

K-5 Mannville
Marsden South Sparky Sand
Marsden Sparky Sand

K-18 Sparky
(Scale: 1:63,360)

Eyehill Cummings Sand
Macklin Sparky Sand
Senlac Lloydminster Sand

K-25 Mannville
(Scale 1:50,000)

Baldwinton Sparky Sand
Freemont Sparky Sand
Freemont Waseca Sand

K-33 Mannville
(Contour Interval: 20 feet)

Celtic General Petroleum Sand
Celtic Mannville Sands
Celtic Sparky Sand
Celtic Waseca Sand
Pikes Peak General Petroleum Sand, Northeast part of
Pikes Peak Sparky Sand, Northeast part of
Pikes Peak Waseca Sand, Northeast part of
Standard Hill Waseca Sand, North part of
Tangleflags East McLaren Sand, Northeast part of
Westhazel General Petroleum Sand
Westhazel Sparky Sand

K-89 Mannville
Fort Pitt Mannville Sand Gas
Fort Pitt North Mannville Sand Gas, South part of
Tangleflags North Cummings Sand, North part of
Tangleflags North General Petroleum Sand, North part of
Tangleflags North Lloydminster Sand, North part of

K-90 Mannville
(Contour Interval: 25 feet)

Edam Waseca Sand
Rush Lake Sparky Sand
Rush Lake Waseca Sand

K-91 Mannville
(Contour Interval: 20 feet)

Golden Lake South Sparky Sand, South part of
Golden Lake South Waseca Sand, South part of
Maidstone McLaren Sand, South part of
Maidstone Waseca Sand, South part of

K-94 Spinney Hill
(Contour Interval: 50 feet)

Cavalier Spinney Hill Sand Gas

K-95 Mannville
(Contour Interval: 5m)

Winter Cummings Sand

Area II
For map areas see Figure 8

K-6-1 Basal Blairmore
K-6-2 Bakken
K-6-3 Pre-Cretaceous Erosion Surface
Fusilier Bakken Sand
Hoosier Bakken Sand
Hoosier Viking Gas, Northwest part of
Loverna Detrital
North Hoosier Bakken Sand
North Hoosier Basal Blairmore Sand

K-7 Viking
Alsask Basal Blairmore Sand, North part of
Fusilier Bakken Sand
Hoosier Bakken Sand
Hoosier Viking Gas, West part of
Loverna Detrital
Milton Viking Sand Gas
North Hoosier Bakken Sand
North Hoosier Basal Blairmore Sand
Whiteside West Viking Sand Gas, West part of

K-8 Viking
Buffalo Coulee North Bakken Sand, West part of
Coleville-Smiley Viking Gas, West part of
Hoosier Bakken Sand, East part of
Hoosier Viking Gas, East part of
Smiley-Dewar Viking
Whiteside Victoria Sand Gas
Whiteside Viking Sand
Whiteside West Viking Sand Gas, East part of

K-9-1 Viking
K-9-2 Bakken
Buffalo Coulee Bakken Sand
Buffalo Coulee North Bakken Sand
Coleville Bakken Sand
Coleville-Smiley Viking Gas, East part of
Dodsland North Viking Gas, West part of
Eureka Viking, West part of
Lucky Hills Viking

K-10 Viking
Avon Hill Viking
Dodsland North Viking Gas
Dodsland Viking Sand
Eureka Viking, East part of
Lucky Hills Viking, East part of

K-11 Viking
(Scale: 1:63,360)
Bayhurst Viking Gas
Bayhurst West Viking Gas

K-12 Viking
(Scale: 1:63,360)
Brock East Viking Gas
Brock Viking Sand Gas
Plato North Viking
Totnes Viking Gas, West part of

K-13 Ribstone Creek
(Scale: 1:50,000)
(Contour Interval: 5 m)
Coleville-Smiley Viking Gas, South part of
Hoosier Viking Gas, Southeast part of
Smiley-Dewar Viking, South part of
Whiteside Victoria Sand Gas
Whiteside Viking Sand
Whiteside West Viking Sand Gas, East part of

K-15 Viking
(Scale: 1:63,360)
Greenan Viking Gas, South part of
Plato Viking

K-16-1 Mannville
K-16-2 Detrital
Alsask Basal Blairmore Sand

K-17 Viking
(Scale: 1: 63,360)
Greenan Viking Gas, North part of
Totnes Viking Gas

K-19 Viking
(Scale: 1:63,360)
Glidden Viking Gas
Whiteside Victoria Sand Gas, Southeast part of

K-24 Viking
(Scale: 1:63,360)
Alsask Basal Blairmore Sand
Marengo Viking Gas

K-34-1 Mannville
K-34-2 Bakken
(Scale: 1:63,360)
(Contour Interval: 20 ft.)
Cactus Lake Basal Mannville-Bakken Sand
Plover Lake Bakken Sand

K-92 Mannville
(Contour Interval: 20 ft.)
Druid Mannville Sands

Area III

For map areas see Figure 9

K-14-1 Medicine Hat
K-14-2 Milk River
(Scale: 1:63,360)
Hatton Medicine Hat Sand Gas
Hatton Milk River Gas
Hatton Milk River-Medicine Hat Gas
Liebenthal Milk River Gas, West part of

K-20 Index Horizon above Cantuar Marker
Battrum North Roseray Sand
Battrum Roseray Sand
Pennant Upper Shaunavon

K-21-1 Index Horizon above Cantuar Marker
K-21-2 Base Roseray
Fosterton Roseray Sand, West part of
Hazlet Roseray Sand
Verlo Roseray Sand

K-22-1 Index Horizon above Cantuar Marker
K-22-2 Base Roseray
Antelope Lake East Roseray Sand
Antelope Lake Upper Shaunavon
Battrum Roseray Sand, South part of
Beverley Cantuar Sand, Northwest part of
Beverley North Cantuar Sand
Beverley Upper Roseray Sand, West part of
Cantuar Lower Roseray Sand, West part of
Cantuar Main Cantuar Sand, West part of
Fosterton Roseray Sand
North Premier Roseray Sand, Northeast part of
North Premier Upper Shaunavon, Northeast part of

K-23 Index Horizon above Cantuar Marker
Beverley Cantuar Sand
Beverley East Cantuar Gas
Beverley North Cantuar Sand
Beverley Upper Roseray Sand
Cantuar East Cantuar Sand
Cantuar East Roseray Sand
Cantuar Lower Roseray Sand
Cantuar Main Cantuar Sand
Main Success Roseray Sand
South Success Roseray Sand
Success North Roseray Sand
Success Roseray Sand Alpha

K-26-1 Index Horizon above Cantuar Marker
K-26-2 Base Roseray
K-26-3 Upper Shaunavon
Antelope Lake East Roseray Sand
Antelope Lake Upper Shaunavon
Delta Upper Shaunavon
North Premier Roseray Sand
North Premier Upper Shaunavon
Suffield Roseray Sand, North part of
Suffield Upper Shaunavon, North part of

K-27-1 Upper Shaunavon
K-27-2 Index Horizon above Cantuar Marker
K-27-3 Base Roseray

Butte Upper Shaunavon, North part of
Covington Upper Shaunavon
Covington West Upper Shaunavon
Delta Upper Shaunavon, South part of
Gull Lake Basal Cantuar Sand
Gull Lake Cantuar Gas
Gull Lake Central Upper Shaunavon
Gull Lake North Upper Shaunavon
Gull Lake South Upper Shaunavon
Johnston Upper Shaunavon
North Premier Roseray Sand, South part of
North Premier Upper Shaunavon, South part of
Suffield Roseray Sand
Suffield Upper Shaunavon

K-28 Upper Shaunavon

Bench Upper Shaunavon, South part of
Bone Creek Upper Shaunavon
Clintonville Shaunavon
Instow Upper Shaunavon
Leitchville Shaunavon
Leon Lake Shaunavon

K-29 Upper Shaunavon

Dollard Upper Shaunavon
Eastend Shaunavon
Whitemud Upper Shaunavon

K-30 Upper Shaunavon

Eastbrook Upper Shaunavon
Rapdan Upper Shaunavon
Rapdan West Shaunavon

K-31 Upper Shaunavon

Bench Upper Shaunavon
Bone Creek Upper Shaunavon, North part of
Butte Upper Shaunavon
Covington Upper Shaunavon, South part of
Covington West Upper Shaunavon
Gull Lake Central Upper Shaunavon, South part of
Gull Lake South Upper Shaunavon
Illerbrun Upper Shaunavon

K-32-1 Upper Shaunavon
K-32-2 Madison

Battle Creek Madison
Battle Creek Upper Shaunavon

Area IV

For map areas see Figure 10

K-50-1 Midale
K-50-2 Frobisher-Alida

Alameda Midale Beds
Glen Ewen Frobisher Beds, West part of
Glen Ewen Midale Beds, West part of
Pinto Frobisher Beds, Northeast part of
Pinto Midale Beds, Northeast part of
Steelman Frobisher Beds, East part of
Steelman Midale Beds, East part of

K-51 Mississipian Erosion Surface

Alida East Alida Beds
Alida West Alida Beds
Cantal Frobisher-Alida Beds
Edenvale Tilston Beds
Hasting Frobisher Beds, Northwest part of
Nottingham Alida Beds
Queensdale East Frobisher-Alida Beds
Queensdale North Alida Beds
Queensdale West Alida Beds
Rosebank Alida Beds, North part of
Wildwood Alida Beds
Willmar Frobisher-Alida Beds, East part of

K-52-1 Midale
K-52-2 Frobisher-Alida

Benson Midale Beds
Bryant Frobisher Beds, West part of
Bryant Midale Beds, West part of
Huntoon Frobisher Beds, East part of
Huntoon Midale Beds, East part of
Innes Frobisher Beds, Southeast part of
Midale Central Frobisher Beds, East part of
Midale Central Midale Beds, East part of
Minard Midale Beds, West part of
Viewfield Frobisher Beds, South part of

K-53 Mississippian Erosion Surface

Arcola Frobisher-Alida Beds, Southwest part of
Browning Frobisher-Alida Beds
Clarilaw Frobisher-Alida Beds
Dalesboro Frobisher-Alida Beds, West part of
Kisbey Birdbear
Minard Midale Beds, East part of
Morrisview Frobisher-Alida Beds
Weir Hill Frobisher Beds, North part of

K-54-1 Midale
K-54-2 Frobisher-Alida

Carnduff Frobisher Beds
Carnduff Midale Beds
Florence Frobisher Beds
Glen Ewen Frobisher Beds, East part of
Glen Ewen Midale Beds, East part of
Hastings Frobisher Beds, South part of
Silverton Frobisher Beds
Souris Flat Frobisher Beds
Workman Frobisher Beds, West part of
Workman Midale Beds, West part of

K-55-1 Mississippian Erosion Surface
K-55-2 Frobisher-Alida
K-55-3 Frobisher Limestone

Carnduff Midale Beds, East part of
Elmore Frobisher Beds
Elmore Midale Beds
Gainsborough Frobisher-Alida Beds, West part of
North Antler Midale Beds
Sherwood Frobisher Beds
Winmore Frobisher Beds
Workman Frobisher Beds
Workman Midale Beds

K-56 Mississippian Erosion Surface
Freestone Frobisher-Alida Beds
Handsworth Alida Beds
Lost Horse Hill Frobisher-Alida Beds, East part of
Melrose Frobisher-Alida Beds, East part of
North Handsworth Alida Beds, Southeast part of
Star Valley Frobisher-Alida Beds
Warmley Alida Beds

K-57 Mississippian Erosion Surface
Frys Tilston-Souris Valley Beds
Rosebank Alida Beds, Northeast part of
Storthoaks Alida-Tilston Beds, North part of

K-58 Mississippian Erosion Surface
Gainsborough Frobisher-Alida Beds
Ingoldsby Frobisher-Alida Beds, Southeast part of
Winmore Frobisher Beds, North part of

K-59-1 Midale
K-59-2 Frobisher-Alida
Alameda Midale Beds, East part of
Carnduff Frobisher Beds, West part of
Carnduff Midale Beds, West part of
Florence Frobisher Beds
Glen Ewen Frobisher Beds
Glen Ewen Midale Beds
Hastings Frobisher Beds, West part of

K-60 Mississippian Erosion Surface
Griffin Frobisher Beds
Hume Frobisher Beds
Hume Midale Beds
Huntoon Frobisher Beds, Northwest part of
Huntoon Midale Beds, Northwest part of
Innes Frobisher Beds
Ralph Midale Beds
West Innes Frobisher Beds
Weyburn Frobisher Beds, North part of
Weyburn Midale Beds, North part of

K-61 Mississippian Erosion Surface
Cantal Frobisher-Alida Beds, South part of
Carnduff Frobisher Beds, North part of
Carnduff Midale Beds, North part of
Glen Ewen Frobisher Beds, Northeast part of
Glen Ewen Midale Beds, Northeast part of
Hastings East Frobisher Beds
Hastings Frobisher Beds
Oakley Frobisher Beds
Rosebank Alida Beds, South part of
Rosebank South Alida Beds, West part of
Silverton Frobisher Beds

K-62 Mississippian Erosion Surface
Hazelwood Tilston Beds
Kenosee Tilston Beds
Moose Mountain Tilston Beds, West part of
South Fletwode Tilston Beds
Warmley Alida Beds

K-63 Mississippian Erosion Surface
Freestone Frobisher-Alida Beds, West part of
Handsworth Alida Beds
Hartaven Frobisher-Alida Beds
Lost Horse Hill Frobisher-Alida Beds
Melrose Frobisher-Alida Beds
North Handsworth Alida Beds

K-64 Mississippian Erosion Surface
Lightning Tilston Beds
Parkman South Tilston-Souris Valley Beds
Parkman Tilston-Souris Valley Beds, South part of
Queensdale North Alida Beds, North part of
Wildwood Alida Beds, Northeast part of

K-65-1 Midale
K-65-2 Frobisher-Alida
Benson Midale Beds, North part of
Hume Frobisher Beds, South part of
Hume Midale Beds, Southeast part of
Huntoon Frobisher Beds, West part of
Huntoon Midale Beds, West part of
Innes Frobisher Beds, South part of
Midale Central Frobisher Beds
Midale Central Midale Beds
Weyburn Frobisher Beds, East part of
Weyburn Midale Beds, East part of

K-66 Midale
Carnduff Midale Beds, West part of
East Pinto Frobisher Beds
East Pinto Midale Beds
Florence Frobisher Beds, West part of
Glen Ewen Frobisher Beds, South part of
Glen Ewen Midale Beds, South part of
Northgate Frobisher Beds
Northgate Midale Beds
Pinto Frobisher Beds, East part of
Pinto Midale Beds, East part of

K-67 Mississippian Erosion Surface
Alida East Alida Beds
Alida West Alida Beds, East part of
Cantal Frobisher-Alida Beds, East part of
Edenvale Tilston Beds
Hastings East Frobisher Beds
Hastings Frobisher Beds, East part of
Ingoldsby Frobisher-Alida Beds
Nottingham Alida Beds
Oakley Frobisher Beds
Rosebank Alida Beds
Rosebank South Alida Beds
Silverton Frobisher Beds
Storthoaks Alida-Tilston Beds

K-68 Base Oungre Evaporite
Bromhead Midale Beds, Southwest part of
Hoffer Ratcliffe Beds Lower
Hoffer Ratcliffe Beds Upper
Oungre Ratcliffe Beds

K-69 Mississippian Erosion Surface
Crystal Hill Souris Valley Beds
Moose Mountain Tilston Beds
Parkman Souris Valley Beds
Parkman South Tilston-Souris Valley Beds, North part of
Parkman Tilston Beds
Parkman Tilston-Souris Valley Beds
White Bear Tilston Beds
White Bear Tilston-Souris Valley Beds

K-70-1 Frobisher-Alida
K-70-2 Midale
Pinto Frobisher Beds
Pinto Midale Beds

K-71 Midale
Bromhead Midale Beds

K-72-1 Midale
Bienfait Midale Beds
Steelman Frobisher Beds
Steelman Midale Beds
Woir Hill Frobisher Beds, South part of
West Kingsford Midale Beds, East part of
Willmar Frobisher-Alida Beds, Southwest part of

K-72-2 Frobisher-Alida
Bryant Frobisher Beds, East part of
Bryant Midale Beds, East part of
Steelman Frobisher Beds
Steelman Midale Beds
Weir Hill Frobisher Beds, South part of
West Kingsford Midale Beds
Willmar Frobisher-Alida Beds, Southwest part of

K-73 Midale
Macoun Midale Beds
Macoun West Midale Beds, East part of
Steelman Frobisher Beds, West part of
Steelman Midale Beds, West part of
View Hill Midale Beds
West Kingsford Midale Beds

K-74-1 Lower Colorado
K-74-2 Mannville
K-74-3 Wapella Sand
K-74-4 Jurassic Erosion Surface
K-74-5 Jurassic Shale Marker
K-74-6 Mississippian Erosion Surface
Wapella Sand

K-75-1 Midale
K-75-2 Frobisher-Alida
Hume Frobisher Beds, South part of
Hume Midale Beds, South part of
Lougheed Midale Beds
Midale Central Frobisher Beds, West part of
Midale Central Midale Beds, West part of
Ralph Midale Beds, South part of
Weyburn Frobisher Beds
Weyburn Midale Beds

K-76 Mississippian Erosion Surface
Dalesboro Frobisher-Alida Beds
Willmar Frobisher-Alida Beds, West part of

K-77-1 Bakken Sand
K-77-2 Mississippian Erosion Surface
Rocanville Bakken Sand

K-78 Mississippian Erosion Surface
Arcola Frobisher-Alida Beds
Browning Frobisher-Alida Beds, East part of
Wildwood Alida Beds, Northwest part of

K-79-1 Ratcliffe
(Contour Interval: 50 ft.)
K-79-2 Birdbear
(Contour Interval: 50 ft.)
Hummingbird Birdbear
Hummingbird Ratcliffe Beds

K-80 Ratcliffe Producing Zone
Flat Lake Ratcliffe Beds
Hoffer Ratcliffe Beds Lower, East part of
Hoffer Ratcliffe Beds Upper, East part of
Lake Alma Ratcliffe Beds

K-81 Base Ounge Evaporite
Freda Lake Ratcliffe Beds
Neptune Ratcliffe Beds, Northwest part of
Skinner Lake Ratcliffe Beds

K-82 Midale
Freda Lake Ratcliffe Beds, North part of

K-83 Base Oungre Evaporite
Neptune Ratcliffe Beds
Skinner Lake Ratcliffe Beds, East part of

K-84 Bakken Sand
Roncott Bakken Sand

K-85 Mississippian Erosion Surface
Benson Midale Beds, North part of
Huntoon Frobisher Beds, East part of
Huntoon Midale Beds, East part of
Stoughton Frobisher-Alida Beds
Stoughton South Frobisher Beds
Viewfield Frobisher Beds

K-86 Midale
(Scale: 1:50,000)
(Contour interval: 10 m)
Lougheed Midale Beds, West part of
Tatagwa Midale Beds

K-87 Midale
Macoun Midale Beds
Macoun West Midale Beds

K-88 Midale
Benson Midale Beds, Southeast part of
Bryant Frobisher Beds
Bryant Midale Beds
Huntoon Frobisher Beds, Southeast part of
Huntoon Midale Beds, Southeast part of
Minard Midale Beds

K-93 Mississippian Erosion Surface
Moose Valley Tilston Beds
North Handsworth Alida Beds, Northeast part of

Pool Index Cross-Reference

For Area boundaries see Figure 6

For reference purposes only — please do not order maps from this index. This index is an alphabetical listing of the pools and the maps required for coverage of the pools within each of the four Production and Disposition Areas. For exact map requirements (e.g., horizons mapped, other pools on sheet, etc.) please order from the **Petroleum and Natural Gas Pool Area Structure Contour Maps** section.

Note: *In some cases the same pool may appear in its entirety on more than one map sheet — where this happens the word "or" is used to indicate this multiple coverage (e.g. Alsask Basal Blairmore Sand. . . . . K-16 or K-24) — thus the user has a choice of more than one map sheet that may be acquired in order to obtain complete coverage of that particular pool.*

In some other cases a particular pool may not be shown in its entirety on any one single map sheet but rather different parts of the pool are shown on several different map sheets — where this happens the word "and" is used to indicate that these maps must all be acquired in order to obtain complete coverage of that particular pool (e.g. Coleville-Smiley Viking Gas . . . . K-8 and K-9).

Area I

For map areas see Figure 7

Pool	*Refer to maps numbered*
Aberfeldy Sparky Sand	K-1-1(South) or K-1-2(South)
Baldwinton Sparky Sand	K-25
Beacon Hill Mannville Sand Gas	K-2
Big Gully McLaren Sand	[K-1-1(South) or K-1-2(South)] and [K-1-1(North) or K-1-2(North).]
Big Gully Waseca Sand	[K-1-1(South) or K-1-2(South)] and [K-1-1(North) or K-1-2(North).]
Buzzard Lloydminster Sand	K-4
Cavalier Spinney Hill Sand Gas	K-94
Celtic General Petroleum Sand	K-33
Celtic Mannville Sands	K-33
Celtic Sparky Sand	K-33
Celtic Waseca Sand	K-33
Dee Valley East Sparky Sand	K-3
Dee Valley East Waseca Sand	K-3
Dee Valley Waseca Sand	K-3
Dulwich North Sparky Sand	K-1-1(South) or K-1-2(South).
Dulwich Sparky Sand	K-1-1(South) or K-1-2(South).
Edam Waseca Sand	K-90
Epping General Petroleum Sand	K-4
Epping Sparky Sand	K-4
Eyehill Cummings Sand	K-18
Forest Bank Mannville Sands	[K-1-1(South) or K-1-2(South)] and K-3
Forest Bank Sparky Sand	[K-1-1(South) or K-1-2(South)] and K-3
Forest Bank Waseca Sand	[K-1-1(South) or K-1-2(South)] and K-3
Fort Pitt Mannville Sand Gas	K-89
Fort Pitt North Mannville Sand Gas	K-89
Freemont Sparky Sand	K-25
Freemont Waseca Sand	K-25
Furness Sparky Sand	K-1-1(South) or K-1-2(South)
Golden Lake North Sparky Sand	K-3
Golden Lake North Waseca Sand	K-3
Golden Lake South Sparky Sand	K-3 and K-91
Golden Lake South Waseca Sand	K-3 and K-91
Gully Lake Waseca Sand	K-3
Landrose McLaren Sand	K-1-1(North) or K-1-2(North)
Landrose Waseca Sand	K-1-1(North) or K-1-2(North)
Lashburn South Sparky Sand	K-3
Lashburn South Waseca Sand	K-3
Lashburn Waseca Sand	K-3
Lashburn West Sparky Sand	[K-1-1(South) or K-1-2(South)] and K-4
Lloydminster Colony Sand Gas	K-1-1(South) or K-1-2(South)
Lloydminster Sparky Sand	K-1-1(North) or K-1-2(North)
Lone Rock Sparky Sand	K-4
Low Lake Waseca Sand	K-3
Macklin Sparky Sand	K-18
Maidstone McLaren Sand	K-3 and K-91
Maidstone Waseca Sand	K-3 and K-91
Marsden South Sparky Sand	K-5
Marsden Sparky Sand	K-5
Neilburg McLaren Sand	K-4
Northminster North General Petroleum Sand	K-1-1(North) or K-1-2(North)
Northminster North Sparky Sand	K-1-1(North) or K-1-2(North)
Northminster Sparky Sand	K-1-1(North) or K-1-2(North)
Pierceland Mannville Sand Gas	K-2
Pikes Peak General Petroleum Sand	K-1-1(North) and K-3 and K-33
Pikes Peak Sparky Sand	K-1-1(North) and K-3 and K-33
Pikes Peak Waseca Sand	K-1-1(North) and K-3 and K-33
Rush Lake Sparky Sand	K-90
Rush Lake Waseca Sand	K-90
Senlac Lloydminster Sand	K-18
Silverdale Sparky Sand	K-1-1(South) or K-1-2(South)
Standard Hill Waseca Sand	K-3 and K-33

Tangleflags East McLaren Sand	K-1-1(North) and K-33
Tangleflags General Petroleum Sand	K-1-1(North)
Tangleflags Lloydminster Sand	K-1-1(North)
Tangleflags Mannville Sands	K-1-1(North)
Tangleflags North Cummings Sand	[K-1-1(North) or K-1-2(North)] and K-89
Tangleflags North General Petroleum Sand	[K-1-1(North) or K-1-2(North)] and K-89
Tangleflags North Lloydminster Sand	[K-1-1(North) or K-1-2(North)] and K-89
Tangleflags Sparky Sand	K-1-1(North)
Tangleflags West General Petroleum Sand	K-1-1(North) or K-1-2(North)
Tangleflags West Lloydminster Sand	K-1-1(North) or K-1-2(North)
Tangleflags West Sparky Sand	K-1-1(North) or K-1-2(North)
Westhazel General Petroleum Sand	K-33
Westhazel Sparky Sand	K-33
Winter Cummings Sand	K-95

Area II

For map areas see Figure 8

Pool	*Refer to maps numbered*
Alsask Basal Blairmore Sand	K-16 or K-24
Avon Hill Viking	K-10
Bayhurst Viking Gas	K-11
Bayhurst West Viking Gas	K-11
Brock East Viking Gas	K-12
Brock Viking Sand Gas	K-12
Buffalo Coulee Bakken Sand	K-9
Buffalo Coulee North Bakken Sand	K-9
Cactus Lake Basal Mannville-Bakken Sand	K-34
Coleville Bakken Sand	K-9
Coleville-Smiley Viking Gas	K-8 and K-9
Dodsland North Viking Gas	K-10
Dodsland Viking Sand	K-10
Druid Mannville Sands	K-92
Eureka Viking	K-9 and K-10
Fusilier Bakken Sand	K-6 or K-7
Glidden Viking Gas	K-19
Greenan Viking Gas	K-15 and K-17
Hoosier Bakken Sand	K-6 or K-7
Hoosier Viking Gas	K-7 and K-8
Loverna Detrital	K-6 or K-7
Lucky Hills Viking	K-9
Marengo Viking Gas	K-24
Milton Viking Sand Gas	K-7
North Hoosier Bakken Sand	K-6 or K-7
North Hoosier Basal Blairmore Sand	K-6 or K-7
Plato North Viking	K-12
Plato Viking	K-15
Plover Lake Bakken Sand	K-34
Smiley-Dewar Viking	K-8
Totnes Viking Gas	K-17
Whiteside Victoria Sand Gas	K-8 or K-13
Whiteside Viking Sand	K-8 or K-13
Whiteside West Viking Sand Gas	K-7 and (K-8 or K-13)

Area III

For map areas see Figure 9

Pool	*Refer to maps numbered*
Antelope Lake East Roseray Sand	K-22 or K-26
Antelope Lake Upper Shaunavon	K-22 or K-26
Battle Creek Madison	K-32
Battle Creek Upper Shaunavon	K-32
Battrum North Roseray Sand	K-20
Battrum Roseray Sand	K-20
Bench Upper Shaunavon	K-31
Beverley Cantuar Sand	K-23
Beverley East Cantuar Gas	K-23
Beverley North Cantuar Sand	K-22 or K-23
Beverley Upper Roseray Sand	K-23
Bone Creek Upper Shaunavon	K-28
Butte Upper Shaunavon	K-31
Cantuar East Cantuar Sand	K-23
Cantuar East Roseray Sand	K-23
Cantuar Lower Roseray Sand	K-23
Cantuar Main Cantuar Sand	K-23
Clintonville Shaunavon	K-28
Covington Upper Shaunavon	K-27
Covington West Upper Shaunavon	K-27 or K-31
Delta Upper Shaunavon	K-26
Dollard Upper Shaunavon	K-29
Eastbrook Upper Shaunavon	K-30
Eastend Shaunavon	K-29
Fosterton Roseray Sand	K-22
Gull Lake Basal Cantuar Sand	K-27
Gull Lake Cantuar Gas	K-27
Gull Lake Central Upper Shaunavon	K-27
Gull Lake North Upper Shaunavon	K-27
Gull Lake South Upper Shaunavon	K-27 or K-31
Hatton Medicine Hat Sand Gas	K-14
Hatton Milk River Gas	K-14
Hatton Milk River-Medicine Hat Gas	K-14
Hazlet Roseray Sand	K-21
Illerbrun Upper Shaunavon	K-31
Instow Upper Shaunavon	K-28
Johnston Upper Shaunavon	K-27

Leitchville Shaunavon	K-28
Leon Lake Shaunavon	K-28
Liebenthal Milk River Gas	T-9
Main Success Roseray Sand	K-23
North Premier Roseray Sand	K-26
North Premier Upper Shaunavon	K-26
Pennant Upper Shaunavon	K-20
Rapdan Upper Shaunavon	K-30
Rapdan West Shaunavon	K-30
South Success Roseray Sand	K-23
Success North Roseray Sand	K-23
Success Roseray Sand Alpha	K-23
Suffield Roseray Sand	K-27
Suffield Upper Shaunavon	K-27
Verlo Roseray Sand	K-21
Whitemud Upper Shaunavon	K-29

Area IV

For map areas see Figure 10

Pool	*Refer to maps numbered*
Alameda Midale Beds	K-50
Alida East Alida Beds	K-51 or K-67
Alida West Alida Beds	K-51
Arcola Frobisher-Alida Beds	K-78
Benson Midale Beds	K-52
Bienfait Midale Beds	K-72-1
Bromhead Midale Beds	K-71
Browning Frobisher-Alida Beds	K-53
Bryant Frobisher Beds	K-88
Bryant Midale Beds	K-88
Cantal Frobisher-Alida Beds	K-51
Carnduff Frobisher Beds	K-54
Carnduff Midale Beds	K-54
Clarilaw Frobisher-Alida Beds	K-53
Crystal Hill Souris Valley Beds	K-69
Dalesboro Frobisher-Alida Beds	K-76
East Pinto Frobisher Beds	K-66
East Pinto Midale Beds	K-66
Edenvale Tilston Beds	K-51 or K-67
Elmore Frobisher Beds	K-55
Elmore Midale Beds	K-55
Flat Lake Ratcliffe Beds	K-80
Florence Frobisher Beds	K-54 or K-59
Freda Lake Ratcliffe Beds	K-81
Freestone Frobisher-Alida Beds	K-56
Frys Tilston-Souris Valley Beds	K-57
Gainsborough Frobisher-Alida Beds	K-58
Glen Ewen Frobisher Beds	K-59
Glen Ewen Midale Beds	K-59
Griffin Frobisher Beds	K-60
Handsworth Alida Beds	K-56 or K-63
Hartaven Frobisher-Alida Beds	K-63
Hastings East Frobisher Beds	K-61 or K-67
Hastings Frobisher Beds	K-61
Hazelwood Tilston Beds	K-62
Hoffer Ratcliffe Beds Upper	K-68
Hoffer Ratcliffe Beds Lower	K-68
Hume Frobisher Beds	K-60
Hume Midale Beds	K-60
Hummingbird Birdbear	K-79
Hummingbird Ratcliffe Beds	K-79
Huntoon Frobisher Beds	K-52 and K-65
Huntoon Midale Beds	K-52 and K-65
Ingoldsby Frobisher-Alida Beds	K-67
Innes Frobisher Beds	K-60
Kenosee Tilston Beds	K-62
Kisbey Birdbear	K-53
Lake Alma Ratcliffe Beds	K-80
Lightning Tilston Beds	K-64
Lost Horse Hill Frobisher-Alida Beds	K-63
Lougheed Midale Beds	K-75
Macoun Midale Beds	K-73 or K-87
Macoun West Midale Beds	K-87
Melrose Frobisher-Alida Beds	K-63
Midale Central Frobisher Beds	K-65
Midale Central Midale Beds	K-65
Minard Midale Beds	K-88
Moose Mountain Tilston Beds	K-69
Moose Valley Tilston Beds	K-93
Morrisview Frobisher-Alida Beds	K-53
Neptune Ratcliffe Beds	K-83
North Antler Midale Beds	K-55
Northgate Frobisher Beds	K-66
Northgate Midale Beds	K-66
North Handsworth Alida Beds	K-63
Nottingham Alida Beds	K-51 or K-67
Oakley Frobisher Beds	K-61 or K-67
Oungre Ratcliffe Beds	K-68
Parkman Souris Valley Beds	K-69
Parkman South Tilston-Souris Valley Beds	K-64
Parkman Tilston Beds	K-69
Parkman Tilston-Souris Valley Beds	K-69
Pinto Frobisher Beds	K-70
Pinto Midale Beds	K-70
Queensdale East Frobisher-Alida Beds	K-51
Queensdale North Alida Beds	K-51
Queensdale West Alida Beds	K-51

Ralph Midale Beds K-60
Rocanville Bakken Sand K-77
Roncott Bakken Sand K-84
Rosebank Alida Beds K-67
Rosebank South Alida Beds K-67

Sherwood Frobisher Beds K-55
Silverton Frobisher Beds . . . . K-54 or K-61 or K-67
Skinner Lake Ratcliffe Beds K-81
Souris Flat Frobisher Beds K-54
South Fletwode Tilston Beds K-62
Star Valley Frobisher-Alida Beds K-56
Steelman Frobisher Beds K-72
Steelman Midale Beds K-72
Storthoaks Alida-Tilston Beds K-67
Stoughton Frobisher-Alida Beds K-85
Stoughton South Frobisher Beds K-85

Tatagwa Midale Beds K-86

Viewfield Frobisher Beds K-85
View Hill Midale Beds K-73

Wapella Sand K-74
Warmley Alida Beds . . . . K-56 or K-62
Weir Hill Frobisher Beds . . . . K-53 and K-72
West Innes Frobisher Beds K-60
West Kingsford Midale Beds . . . . K-72-2 or K-73
Weyburn Frobisher Beds K-75
Weyburn Midale Beds K-75
White Bear Tilston Beds K-69
White Bear Tilston-Souris Valley Beds K-69
Wildwood Alida Beds K-51
Willmar Frobisher-Alida Beds . . . . K-51 and K-76
Winmore Frobisher Beds K-55
Workman Frobisher Beds K-55
Workman Midale Beds K-55

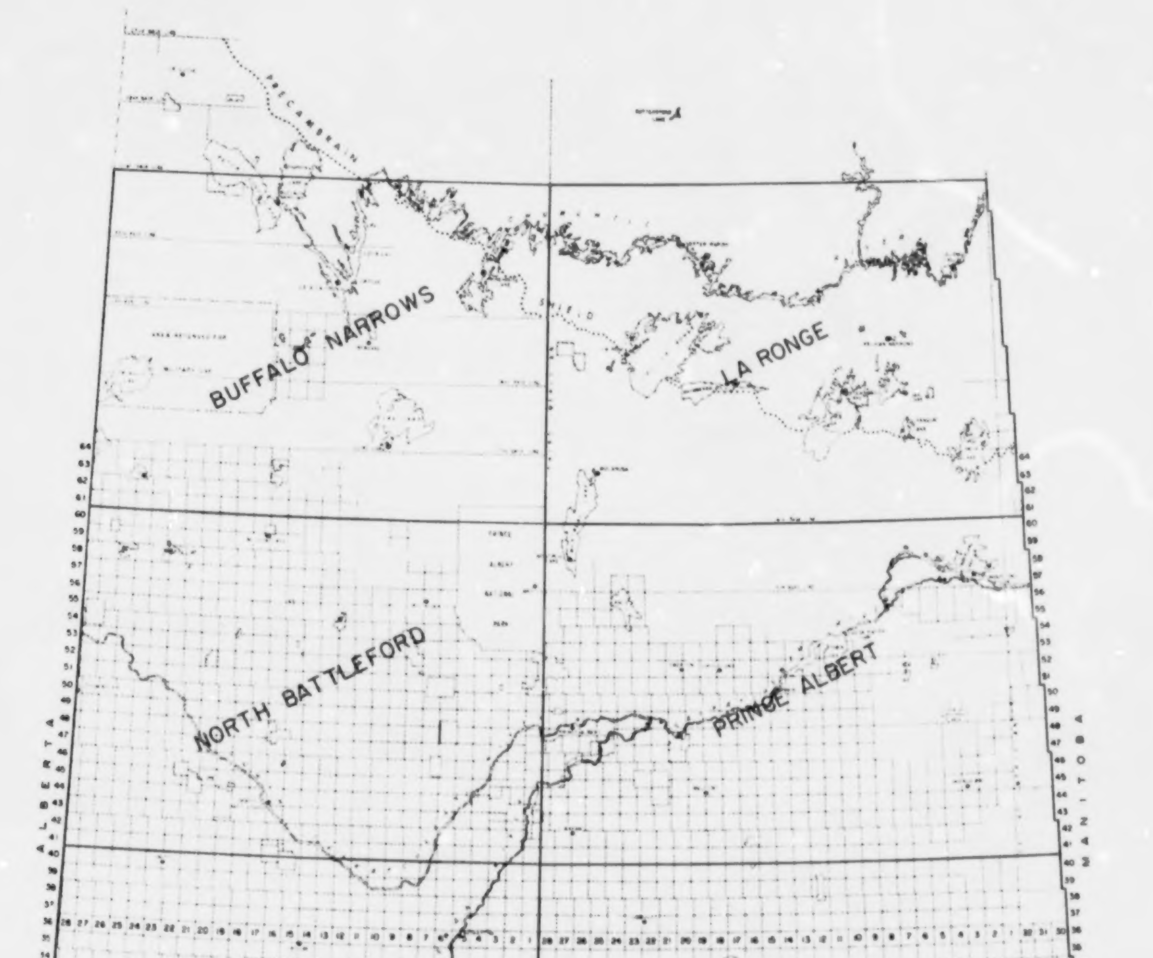
PRECAMBRIAN
SHIELD
BUFFALO NARROWS
LA RONGE
NORTH BATTLEFORD
PRINCE ALBERT
SASKATOON
YORKTON
SWIFT CURRENT
REGINA
ALBERTA
MANITOBA
UNITED STATES OF AMERICA

Figure 11: Index Map of 1:253,440 scale Township System Maps.

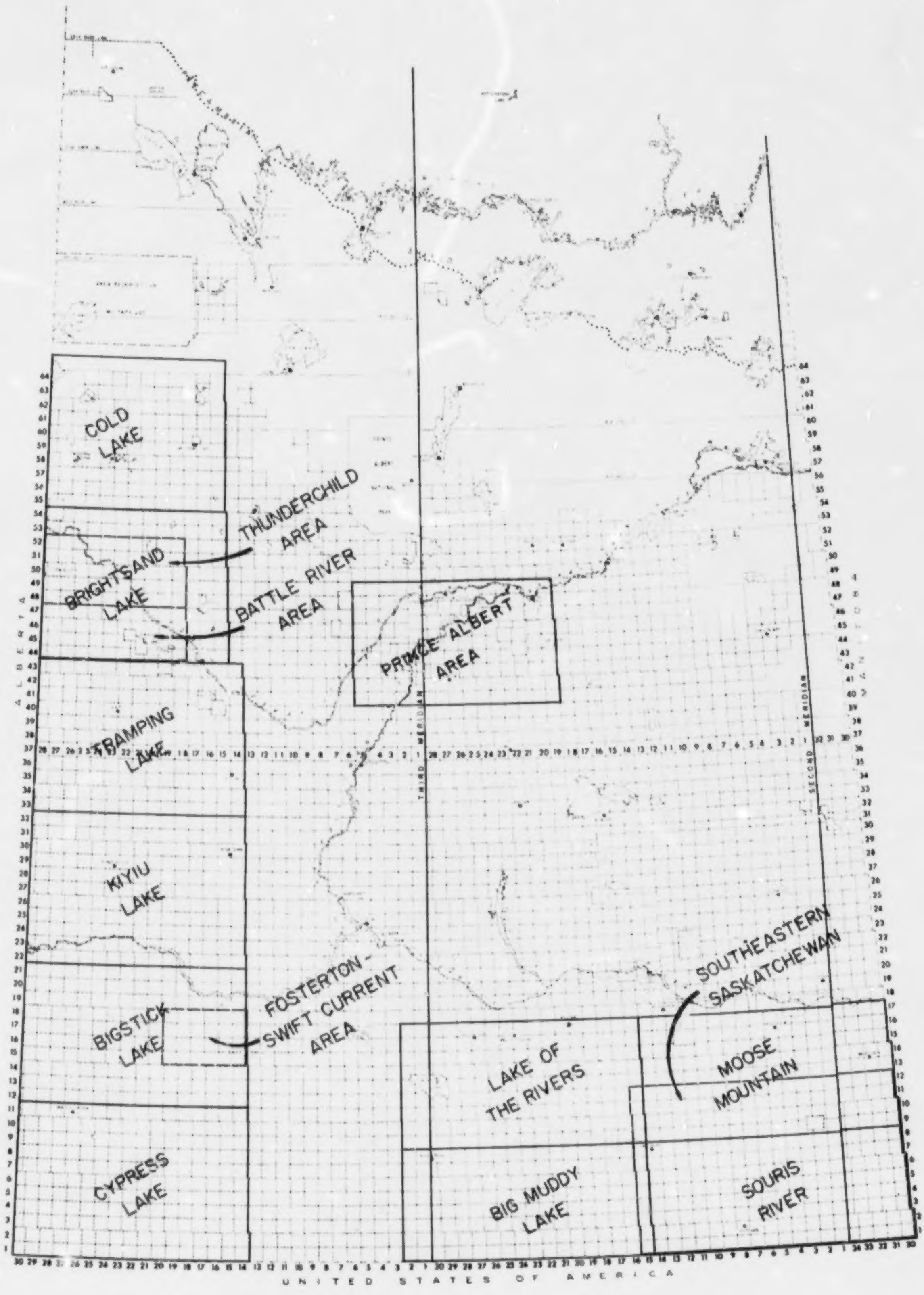
COLD LAKE
THUNDERCHILD AREA
BRIGHTSAND LAKE
BATTLE RIVER AREA
PRINCE ALBERT AREA
TRAMPING LAKE
KIYIU LAKE
FOSTERTON - SWIFT CURRENT AREA
BIGSTICK LAKE
CYPRESS LAKE
LAKE OF THE RIVERS
BIG MUDDY LAKE
SOUTHEASTERN SASKATCHEWAN
MOOSE MOUNTAIN
SOURIS RIVER
ALBERTA
MANITOBA
THIRD MERIDIAN
SECOND MERIDIAN
UNITED STATES OF AMERICA

Figure 12: Index Map of 1:63,360 and 1:126,720 scale Township System Maps.

Regional Subsurface Contour Maps

See Figures 11 and 12 for locations of map areas.

Thunderchild Area

Scale: 1:63,360; Townships 48-52, Range 18 West of the Third Meridian to the Alberta border.

E-354
Structure Contours on the Mannville Group, by K. H. von Ledebur. Contour interval: 50 feet (15.24 m). The contours on this map are based on well control only. Revised February 1976.

Fosterton-Swift Current Area

Scale: 1:63,630; Townships 15-19, Ranges 14-19, West of the Third Meridian

E-264
Structure Contours on the Lower Vanguard Formation, by W.I. White. Contour interval: 50 feet (15.24m). Revised March 5, 1974.

Battle River Area

Scale: 1:63,360; Townships 44-47, Range 18 West of the Third Meridian to the Alberta border.

E-355
Structure Contours on the Mannville Group, by K. H. von Ledebur. Contour interval: 50 feet (15.24 m). The contours on this map are based on well control only. Revised February 1976.

Southeastern Saskatchewan

Scale: 1:126,720; Townships 1-12, Manitoba border to Range 15 West of the Second Meridian.
It should be noted that because of space limitations the values used in preparing the contour maps are shown on separate sheets listed immediately below each contour map (except E-238 on which the values are included on the contour map).

E-204-A
Structure Contours on the Midale Beds, by K. H. von Ledebur. Contour interval: 50 feet (15.24 m). Revised July 1976.

E-204-B
Tops of Midale Beds, by K. H. von Ledebur. Revised May, 1976.

E-205-A
Structure Contours on the Mississippian Erosion Surface, by K. H. von Ledebur. Contour interval: 50 feet (15.24 m). Revised July 1976.

E-205-B
Tops on the Mississippian Erosion Surface, by K. H. von Ledebur. Revised June, 1976.

E-206-A
Isopach Map of the Lower Watrous Red Beds, by K. H. von Ledebur. Contour interval: 10 feet (3.05 m). Revised July 1976.

E-206-B
Thickness Map of the Lower Watrous Red Beds, by K. H. von Ledebur. Revised May 1976.

E-211
Subcrop Map on the Mississippian Erosion Surface, by L. M. Fuzesy, W. I. White and W. P. von Osinski. Revised September 1976.

E-238
Structure Contours on the Mannville Group, by K. H. von Ledebur. Contour interval: 50 feet (15.24 m). Revised March 1975.

Souris River

Scale: 1:126,720; Townships 1-8, Manitoba border to Range 14 West of the Second Meridian.

E-315
Structure Contours on the Ratcliffe Beds, by A. P. Schmid. Contour interval: 100 feet (30.48 m). Revised May 1978.

Big Muddy Lake

Scale: 1:126,720; Townships 1-8, Range 15 West of the Second Meridian to Range 2 West of the Third Meridian.

E-277
Structure Contours on the Ratcliffe Beds, by A. P. Schmid. Contour interval: 100 feet (30.48 m). Revised December 1982.

E-326
Structure Contours on the Birdbear Formation, by W.P. von Osinski. Contour interval: 100 feet (30.48 m). This map is based partly on seismic information. Revised February, 1969.

Cypress Lake

Scale: 1,126,720; Townships 1-11, Range 14 West of the Third Meridian to the Alberta border.

T-1
Structure Contours on the Index Horizon Above the Cantuar Marker, by A. P. Schmid. Contour interval: 100 feet (30.48 m). Revised April 1975.

T-2
Structure Contours on the Upper Shaunavon, by A. P. Schmid. Contour interval: 50 feet (15.24 m). Revised January 1975.

T-8
Structure Contours on the Lower Colorado, by K. H. von Ledebur. Contour interval: 10 feet (3.05 m). Revised June 1972.

T-10
Structure Contours on the Milk River Formation, by W. I. White. Contour interval: 25 feet (7.62 m). Revised January 1975.

T-11
Isopach Map of the Milk River Sands, by W. I. White. Contour interval: 10 feet (3.05 m). Revised January 1975.

T-12
Isopach Map of the Sand in the Second White Specks Interval, by W. I. White. Contour interval: 10 feet (3.05 m). Revised January 1975.

Bigstick Lake

Scale: 1:126,720; Townships 12-21, Range 14 West of the Third Meridian to the Alberta border.

T-3
Structure Contours on the Index Horizon Above the Cantuar Marker, by W. I. White. Contour interval: 10 feet (3.05 m). Revised January 1976.

T-7
Structure Contours on the Upper Shaunavon, by K. H. von Ledebur. Contour interval: 50 feet (15.24 m). Revised June 1972.
Note: *This map does not include Township 21.*

T-9
Structure Contours on the Milk River Formation, by W. I. White. Contour interval: 50 feet (15.24 m). Revised February 1974.
Note: *This map covers only the western portion of the Bigstick Lake sheet, i.e. Range 21 West of the Third Meridian to the Alberta border.*

T-13
Isopach Map of the Milk River Sands, by W. P. von Osinski. Contour interval: 10 feet (3.05 m). Revised April 1976.

Tramping Lake

Scale: 1:126,720; Townships 33-43, Range 14 West of the Third Meridian to the Alberta border.

T-14
Structure Contours on the Mannville Formation, by A. P. Schmid. Contour interval: 50 feet (15.24 m). Revised November 1982.

Brightsand Lake

Scale: 1:126,720. Townships 44-54, Range 15 West of the Third Meridian to the Alberta border.

T-15
Structure Contours on the Mannville Group, by W.I. White and W.P. von Osinski. Contour interval: 50 feet (15.24m). Revised February, 1976.

Cold Lake

Scale: 1:126,720; Townships 55-65, Range 15 West of the Third Meridian to the Alberta border.

T-16
Structure Contours on the Mannville Group, by L. L. Williams. This map is based on well control supplemented by structure test hole data. Contour interval: 50 feet (15.24 m). Revised July 1976.

Regina

Scale: 1,253,440; Townships 1-20, Manitoba border to the Third Meridian. This area includes all the pools and fields producing from the Mississippian in southeastern Saskatchewan. The values are indicated at each control point for wildcat wells but are not indicated for closely spaced field wells. The maps are based on well control and available seismic information.

E-216
Structure Contours on the Palaeozoic Erosion Surface, by K. H. von Ledebur. Contour interval: 50 feet (15.24 m). Revised October 1972.

E-254
Structure Contours on the Mannville Group, by K. H. von Ledebur. Contour interval: 50 feet (15.24 m). Revised October 1972.

E-352
Structure Contours on the Birdbear Formation, by W. P. von Osinski. Contour interval: 100 feet (30.48 m). Revised September 1974.

Swift Current

Scale: 1,253,440; Townships 1-20, Third Meridian to the Alberta border. This area includes all the pools and fields that are producing from Jurassic and Cretaceous strata in southwestern Saskatchewan and also includes the principal area involved in helium exploration. The values contoured are indicated at each control point in the case of wildcat wells but are not indicated for closely spaced field wells. The maps are based on well control and available seismic information.

E-207
Structure Contours on the Mannville Group, by A. P. Schmid. Contour interval: 50 feet (15.24 m). Revised November 1972.

E-208
Structure Contours on the Upper Shaunavon, by A. P. Schmid and K. H. von Ledebur. Contour interval: 50 feet (15.24 m). Revised November 1972.

E-209
Structure Contours on the Palaeozoic Erosion Surface, by K. H. von Ledebur. Contour interval: 50 feet (15.24 m). Revised August 1973.

V-1
Drill Stem Test Results, by K. H. von Ledebur. DST results are indicated on map for wildcat wells by means of special well symbols with further subdivision breakdown by means of code letters. Pool and field wells are not included. Revised October 1972.

Yorkton

Scale: 1:253,440; Townships 21-40, Manitoba border to the Third Meridian. The values contoured are indicated at each control point for wildcat wells — there are no fields or pools on this map area. The maps are based on well control and available seismic information.

E-255
Structure Contours on the Mannville Group, by K. H. von Ledebur. Contour interval: 50 feet (15.24 m). Revised January 1971.

E-260
Structure Contours on the Palaeozoic Erosion Surface, by K. H. von Ledebur. Contour interval: 100 feet (30.48 m). Revised January 1971.

Saskatoon

Scale: 1:253,440; Townships 21-40, Third Meridian to the Alberta border. The values contoured are indicated at each control point for wildcat wells but are not indicated for closely spaced field wells. The maps are based on well control and available seismic information.

E-217
Structure Contours on the Mannville Group, by K. H. von Ledebur. Contour interval: 50 feet (15.24 m). Revised November 1973.

E-218
Structure Contours on the Palaeozoic Erosion Surface, by K. H. von Ledebur. Contour interval: 50 feet (15.24 m). Revised June 1972

E-253
Structure Contours on the Viking Sand, by W. I. White. Contour interval: 50 feet (15.24 m). Revised April 1976.

North Battleford

Scale: 1:253,440. Townships 41-60, Third Meridian to the Alberta border. The values contoured are indicated at each control point for wildcat wells but are not indicated for closely spaced field wells. Map E-219 is based on well control supplemented by structure test hole data: Map E-265 is based on well control only.

E-219
Structure Contours on the Mannville Group, by L. L. Williams. Contour interval: 50 feet (15.24 m). Revised November 1976.

E-265
Structure Contours on the Palaeozoic Erosion Surface, by K. H. von Ledebur. Contour interval: 50 feet (15.24 m). Revised August 1973.

Aeromagnetic Maps

1:63,360 scale.(Upward Continuation)
The following group of ten maps show the value of the earth's magnetic field as it would be observed from a flying height of 1,000 feet above mean terrain elevation. These ten maps are thus compatible with those for the remainder of the Precambrian area which was flown at a mean terrain clearance of 1,000 feet.

Map Area	Map Title	Map No.	Date
73-P-1	Cartier Lake	N-20	April, 1972
73-P-6	Nemeiben Lake	N-21	April, 1972
73-P-7	Stanley	N-22	April, 1972
73-P-8	Nistowiak Lake	N-23	April, 1972
73-P-9	Guncoat Bay	N-24	April, 1972
73-P-10	Otter Lake	N-25	April, 1972
73-P-11	Birch Rapids	N-26	April, 1972
73-P-13	Eulas Lake	N-27	April, 1972
73-P-14	McTavish Lake	N-28	April, 1972
73-P-15	Forbes Lake	N-29	April, 1972

Map Area	Map Title	Map No.	Surveyed
63-E-1	Caba Creek	4690G	1967 to 1969
63-E-2	Buckmeyer Lake	4689G	1967 to 1969
63-E-3	Connell Creek	4688G	1967 to 1969
63-E-4	Arborfield	4687G	1967 to 1969
63-E-5	Carrot River	4671G	1967 to 1969
63-E-6	Battle Heights	4672G	1967 to 1969
63-E-7	Red Earth Creek	4673G	1967 to 1969
63-E-8	Otosquen	4674G	1967 to 1969
63-E-9	Petabec Lake	4658G	1967 to 1969
63-E-10	Meadow Lake	4657G	1967 to 1969
63-E-11	Ravendale	4656G	1967 to 1969
63-E-12	Mossyvale	4655G	1967 to 1969
63-E-13	Baird Lake	4639G	1967 to 1969
63-E-14	Anderson Island	4640G	1967 to 1969
63-E-15	Cut Beaver Lake	4641G	1967 to 1969
63-E-16	Cumberland House	4642G	1967 to 1969
63-F-4	Chemong Creek	4256G	1965
63-F-5	Turnberry	4257G	1965
63-F-12	Culdesac Lake	4258G	1965
63-F-13	Barrier Lake	4259G	1965
63-K-4	Namew Lake	2451G	1962
63-K-5	Goose Lake	2452G	1962
63-K-12	Athapapuskow Lake	2453G	1962
63-K-13	Flin Flon	2454G	1962
63-L-1	Archibald Lake	4626G	1967, 1968 & 1969
63-L-2	Pinebluff Lake	4625G	1967, 1968 & 1969
63-L-3	Erickson Lake	4624G	1967, 1968 & 1969
63-L-4	Red Bobs Lake	4623G	1967, 1968 & 1969
63-L-5	Seager Wheeler Lake	4613G	1967
63-L-6	Saunders Lake	4614G	1967
63-L-7	Suggi Lake	4615G	1967
63-L-8	Leonard Lake	4616G	1967
63-L-9	Denare Beach	4606G	1966 & 1967
63-L-10	Hanson Lake	4605G	1966 & 1967
63-L-11	Limestone Lake	4604G	1966 & 1967
63-L-12	Ballantyne Bay	4603G	1966 & 1967
63-L-13	Oskikebuk Lake	4593G	1966 & 1967
63-L-14	Viney Lake	4594G	1966 & 1967
63-L-15	Birch Portage	4595G	1966 & 1967
63-L-16	Annabel Lake	4596G	1966 & 1967

63-M-1	Attitti Lake	4586G	1988 & 1989
63-M-2	Pelican Narrows	4585G	1988 & 1989
63-M-3	Sandy Narrows	4584G	1988 & 1989
63-M-4	Maynard Lake	4822G	1988 & 1989
63-M-5	Trade Lake	4812G	1988 & 1989
63-M-6	Manawan Lake	4813G	1988 & 1989
63-M-7	Marchel Lake	4814G	1988 & 1989
63-M-8	Nemei Lake	4815G	1988 & 1989
63-M-9	Island Falls	4805G	1988 & 1989
63-M-10	Wintego Lake	4804G	1988 & 1989
63-M-11	Conjuring River	4803G	1988 & 1989
63-M-12	Glennie Lake	4802G	1988 & 1989
63-M-13	Kelly Lake	4792G	1988 & 1989
63-M-14	Steephill Lake	4793G	1988 & 1989
63-M-15	Scimitar Lake	4794G	1988 & 1989
63-M-16	(No title)	4795G	1988 & 1989
63-N-4	Duval Lake	2547G	1984
63-N-5	Kipahigan Lake	2548G	1984
63-N-12	(No title)	2549G	1984
63-N-13	Britton Lake	2550G	1984
64-D-1	Kamatsi Lake	2843G	1984
64-D-2	Harriott Lake	2842G	1984
64-D-3	Royal Lake	2841G	1984
64-D-4	Waddy Lake	2840G	1984
64-D-5	May Lake	2824G	1984
64-D-6	Southend	2825G	1984
64-D-7	Finlayson Lake	2826G	1984
64-D-8	Wapus Lake	2827G	1984
64-D-9	Bleasdell Lake	2811G	1984
64-D-10	Milton Island	2810G	1984
64-D-11	Ghana Lake	2809G	1984
64-D-12	Macoun Lake	2808G	1984
64-D-13	Wathaman Lake	2792G	1984
64-D-14	Oliver Lake	2793G	1984
64-D-15	Perry Lake	2794G	1984
64-D-16	Amiskit Island	2795G	1984
64-E-1	Cheesman Island	2779G	1983
64-E-2	Wepusko Bay	2778G	1983
64-E-3	Reilly Lake	2777G	1983
64-E-4	Robson Lake	2776G	1983
64-E-5	Combe Lake	2760G	1983
64-E-6	Rutherford Lake	2761G	1983
64-E-7	Bedford Island	2762G	1983
64-E-8	Beaver Island	2763G	1983
64-E-9	Ballentin Island	2747G	1983
64-E-10	Pearce Lake	2746G	1983
64-E-11	Cairns Lake	2745G	1983
64-E-12	Morell Lake	2744G	1983
64-E-13	Nekweaga Bay	2728G	1983
64-E-14	Linn Island	2729G	1983
64-E-15	MacKenzie Lake	2730G	1983
64-E-16	Fraser Island	2731G	1983
64-L-1	Zangeza Bay	2715G	1982
64-L-2	Fidler Bay	2714G	1982
64-L-3	Hungry Island	2713G	1982
64-L-4	Hidden Bay	2712G	1982
64-L-5	Cunning Bay	2698G	1982
64-L-6	Fife Island	2697G	1982
64-L-7	Klemmer Lake	2696G	1982
64-L-8	Metka Lake	2695G	1982
64-L-9	Sava Lake	2693G	1982
64-L-10	Deception Bay	2692G	1982
64-L-11	Killock Bay	2691G	1982
64-L-12	Hatchet Lake	2690G	1982
64-L-13	Babiche Lake	2694G	1982

64-L-14	Walsh Lake	2865G	1962
64-L-15	Bannock Lake	2866G	1962
64-L-16	Charcoal Lake	2867G	1962
64-M-1	Hara Lake	1247G	1961
64-M-2	Eyinew Lake	1248G	1961
64-M-3	Bickerton Lake	1249G	1961
64-M-4	Misskumaw Lake	1250G	1961
64-M-5	Walker Lake	1251G	1961
64-M-6	Franklin Lake	1252G	1961
64-M-7	Hutcherson Lake	1253G	1961
64-M-8	Nunim Lake	1254G	1961
64-M-9	Dutton Lake	1255G	1961
64-M-10	Emerson Lake	1256G	1961
64-M-11	Battleford Lake	1257G	1961
64-M-12	Sakwasew Lake	1258G	1961
64-M-13	Wayow Lake	1259G	1961
64-M-14	Bailey Lake	1260G	1961
64-M-15	Warren Lake	1261G	1961
64-M-16	Patterson Lake	1262G	1961
73-F-1	Jackfish Lake	4678G	1967 to 1969
73-F-2	St. Hippolyte	4677G	1967 to 1969
73-F-3	Maidstone	4676G	1967 to 1969
73-F-4	Lashburn	4675G	1967 to 1969
73-F-5	Greenstreet	4659G	1967 to 1969
73-F-6	Cleeves	4660G	1967 to 1969
73-F-7	Turtleford	4661G	1967 to 1969
73-F-8	Medstead	4662G	1967 to 1969
73-F-9	Helene Lake	4646G	1967 to 1969
73-F-10	Turtle Lake	4645G	1967 to 1969
73-F-11	St. Walburg	4644G	1967 to 1969
73-F-12	Frenchman Butte	4643G	1967 to 1969
73-F-13	Bronson Lake	4627G	1967 to 1969
73-F-14	Barthel	4628G	1967 to 1969
73-F-15	Horsehead Creek	4629G	1967 to 1969
73-F-16	Hunting Lake	4630G	1967 to 1969
73-G-1	Shellbrook	4682G	1967 to 1969
73-G-2	Parkside	4681G	1967 to 1969
73-G-3	Mistawasis Lake	4680G	1967 to 1969
73-G-4	Meeting Lake	4679G	1967 to 1969
73-G-5	Witchekan Lake	4663G	1967 to 1969
73-G-6	Mildred	4664G	1967 to 1969
73-G-7	Canwood	4665G	1967 to 1969
73-G-8	Wild Rose	4666G	1967 to 1969
73-G-9	Halkett Lake	4650G	1967 to 1969
73-G-10	Debden	4649G	1967 to 1969
73-G-11	Keg Lake	4648G	1967 to 1969
73-G-12	Leoville	4647G	1967 to 1969
73-G-13	Chitek	4631G	1967 to 1969
73-G-14	Big River	4632G	1967 to 1969
73-G-15	Bodmin	4633G	1967 to 1969
73-G-16	Waskesiu Lake	4634G	1967 to 1969
73-H-1	Ridgedale	4686G	1967 to 1969
73-H-2	Fairy Glen	4685G	1967 to 1969
73-H-3	Peonan Lake	4684G	1967 to 1969
73-H-4	Prince Albert	4683G	1967 to 1969
73-H-5	Henribourg	4667G	1967 to 1969
73-H-6	Weirdale	4668G	1967 to 1969
73-H-7	Smeaton	4669G	1967 to 1969
73-H-8	Nipawin	4670G	1967 to 1969
73-H-9	Torch River	4654G	1967 to 1969
73-H-10	Bedard Creek	4653G	1967 to 1969
73-H-11	Torch Lake	4652G	1967 to 1969
73-H-12	Christopher Lake	4651G	1967 to 1969
73-H-13	Bittern Lake	4635G	1967 to 1969
73-H-14	Candle Lake	4636G	1967 to 1969

73-H-15	(No title)	4637G	1967 to 1969
73-H-16	Falling Horse Creek	4638G	1967 to 1969
73-I-1	Scarth River	4622G	1967, 1968 & 1969
73-I-2	Summit Lake	4621G	1967, 1968 & 1969
73-I-3	Whiteswan Lakes	4620G	1967, 1968 & 1969
73-I-4	Montreal Lake South	4619G	1967, 1968 & 1969
73-I-5	Montreal Lake North	4609G	1967
73-I-6	Meeyomoot Lake	4610G	1967
73-I-7	Little Bear Lake	4611G	1967
73-I-8	Big Sandy Lake	4612G	1967
73-I-9	(No title)	4602G	1966 & 1967
73-I-10	Dowd Lakes	4601G	1966 & 1967
73-I-11	Ennis Lake	4600G	1966 & 1967
73-I-12	Varey Lake	4599G	1966 & 1967
73-I-13	Meyakumew Lake	4589G	1966 & 1967
73-I-14	Meeyomoot Bay	4590G	1966 & 1967
73-I-15	Wapawekka Lake West	4591G	1966 & 1967
73-I-16	Wapawekka Lake East	4592G	1966 & 1967
73-J-1	Crean Lake	4618G	1967, 1968 & 1969
73-J-2	Strange Lake	4617G	1967, 1968 & 1969
73-J-3	Taggart Lake	576G	1952
73-J-4	Green Lake South	577G	1952
73-J-5	Green Lake North	578G	1952
73-J-6	Sled Lake	579G	1952
73-J-7	Clarke Lake	4607G	1967
73-J-8	Wassegam Lake	4608G	1967
73-J-9	Randall Lake	4598G	1966 & 1967
73-J-10	Smoothstone Lake	4597G	1966 & 1967
73-J-11	Dore Lake South	568G	1952
73-J-12	Aubichon Lake	569G	1952
73-J-13	Durocher Lake	570G	1952
73-J-14	Dore Lake North	571G	1952
73-J-15	Swan Lakes	4587G	1966 & 1967
73-J-16	Randall River	4588G	1966 & 1967
73-K-1	Meadow Lake	580G	1952
73-K-2	Rapid View	581G	1952
73-K-3	Makwa Lake	582G	1952
73-K-4	Ministikwan Lake	583G	1952
73-K-5	Pierceland	584G	1952
73-K-6	Goodsoil	585G	1952
73-K-7	Dorintosh	586G	1952
73-K-8	Island Hill	587G	1952
73-K-9	Waterhen Lake	572G	1952
73-K-10	Flotten Lake	573G	1952
73-K-11	Muskeg Lake	574G	1952
73-K-12	Cold River	575G	1952
73-K-13	Primrose Lake	556G	1952
73-K-14	Kesatasew Lake	557G	1952
73-K-15	Lost Lake	558G	1952
73-K-16	Keeley Lake	559G	1952
73-N-1	Canoe Lake	552G	1952
73-N-2	Juggins Creek	553G	1952
73-N-3	Carlton Lake	554G	1952
73-N-4	Calder River	555G	1952
73-N-5	Watapi Lake	305G	1952
73-N-6	Nipin Lake	306G	1952
73-N-7	McCusker Lake	307G	1952
73-N-8	Apps Lake	484G	1952
73-N-9	Kazan Lake	485G	1952
73-N-10	Niska Lake	319G	1952
73-N-11	Vermette Lake	320G	1952
73-N-12	McAllister Lake	321G	1952
73-N-13	Graham Lake	322G	1952
73-N-14	Michel	323G	1952
73-N-15	Dillon	324G	1952
73-N-16	Buffalo Narrows	486G	1952

73-O-1	Moose Portage	4817G	1966 to 1969
73-O-2	McLurg Creek	4816G	1966 to 1969
73-O-3	Lac la-Plonge	560G	1962
73-O-4	La-Plonge	561G	1962
73-O-5	Ile-a-la-Crosse	562G	1962
73-O-6	Cinder Lake	563G	1962
73-O-7	Agumik Lake	4806G	1968 & 1969
73-O-8	Bar Lake	4807G	1968 & 1969
73-O-9	Sandfly Lake	4797G	1968 & 1969
73-O-10	Pinehouse Lake	4796G	1968 & 1969
73-O-11	Alstead Lake	564G	1962
73-O-12	Abitau Lake	565G	1962
73-O-13	Shagwenaw Lake	566G	1962
73-O-14	Dipper Lake	567G	1962
73-O-15	Bentley Bay	4786G	1968 & 1969
73-O-16	Belanger	4787G	1968 & 1969
73-P-1	Cartier Lake	4821G	1962
73-P-2	Hunter Bay	4820G	1966 to 1969
73-P-3	La Ronge	4819G	1966 to 1969
73-P-4	Morin Lake	4818G	1966 to 1969
73-P-5	Clam Lake	4808G	1968 & 1969
73-P-6	Nemeiben Lake	4809G	1963
73-P-7	Stanley	4810G	1963
73-P-8	Nistowiak Lake	4811G	E½ 1967, W½ 1963
73-P-9	Guncoat Bay	4801G	E½ 1967, W½ 1963
73-P-10	Otter Lake	4800G	1963
73-P-11	Birch Rapids	4799G	1968
73-P-12	Black Bear Island Lake	4798G	1968 & 1969
73-P-13	Eulas Lake	4788G	1968
73-P-14	McTavish Lake	4789G	1968
73-P-15	Forbes Lake	4790G	1967
73-P-16	Settee Lake	4791G	1968 & 1969
74-A-1	Maribelli Lake	2839G	1964
74-A-2	Paull Lake	2838G	1964
74-A-3	Nagle Lake	2837G	1964
74-A-4	Hewetson Lake	2836G	1964
74-A-5	Pylypow Lake	2820G	1964
74-A-6	Barnett Lake	2821G	1964
74-A-7	Rottenstone Lake	2822G	1964
74-A-8	Hickson Lake	2823G	1964
74-A-9	Deception Lake	2807G	1964
74-A-10	Dobbin Lake	2806G	1964
74-A-11	Middle Foster Lake	2805G	1964
74-A-12	Daly Lake	2804G	1964
74-A-13	Costigan Lake	2788G	1964
74-A-14	Burbidge Lake	2789G	1964
74-A-15	Pendleton Lake	2790G	1964
74-A-16	Jewell Lake	2791G	1964
74-B-1	George Lake	2835G	1964
74-B-2	Cup Lake	2834G	1964
74-B-3	Studer Lake	2833G	1964
74-B-4	Little Flatstone Lake	2832G	1964
74-B-5	Gillies Lake	2816G	1964
74-B-6	Porter Lake	2817G	1964
74-B-7	Complex Lake	2818G	1964
74-B-8	Norbert Lake	2819G	1964
74-B-9	Smalley Lake	2803G	1964
74-B-10	Bofla Lake	2802G	1964
74-B-11	Grand Rapids	2801G	1964
74-B-12	Hedderly Lake	2800G	1964
74-B-13	Black Birch Lake	2784G	1964
74-B-14	Gwillim Lake	2785G	1964
74-B-15	Desnomie Lakes	2786G	1964
74-B-16	Haultain Lake	2787G	1964

74-C-1	Singleton Lake	2831G	1984
74-C-2	McCoy Lake	2830G	1984
74-C-3	Hay Point	2829G	1984
74-C-4	McAdam Lake	2828G	1984
74-C-5	Garson Lake	2812G	1984
74-C-6	McLean Lake	2813G	1984
74-C-7	McAnesley Bay	2814G	1984
74-C-8	Frobisher Lake	2815G	1984
74-C-9	Josephson Lake	2799G	1984
74-C-10	Turnor Lake	2798G	1984
74-C-11	McLean River	2797G	1984
74-C-12	Wallis Bay	2796G	1984
74-C-13	Heise Lake	2780G	1984
74-C-14	Tocker Lake	2781G	1984
74-C-15	Parker Bay	2782G	1984
74-C-16	McArther Lake	2783G	1984
74-F-1	Neff Lake	2767G	1983
74-F-2	Pickford Lake	2766G	1983
74-F-3	Descharme Lake	2765G	1984
74-F-4	Simonson Lake	2764G	1983
74-F-5	Firebag Lake	2748G	1983
74-F-6	Preston Lake	2749G	1983
74-F-7	Langley Lake	2750G	1983
74-F-8	Montgrand Lake	2751G	1983
74-F-9	Wolverman Lakes	2735G	1983
74-F-10	Koop Lake	2734G	1983
74-F-11	Forrest Lake	2733G	1983
74-F-12	Wenger Lake	2732G	1983
74-F-13	Smart Lake	2716F	1983
74-F-14	Minto Lake	2717G	1983
74-F-15	Hook Lake	2718G	1983
74-F-16	Hall Lake	2719G	1983
74-G-1	Grassick Lake	2771G	1983
74-G-2	American Lake	2770G	1983
74-G-3	Esker Lake	2769G	1983
74-G-4	Nyberg Lakes	2768G	1983
74-G-5	Dufferin Lake	2752G	1983
74-G-6	Warnes Lake	2753G	1983
74-G-7	Ispatinow Island	2754G	1983
74-G-8	MacIntyre Lake	2755G	1983
74-G-9	Middleton Island	2739G	1983
74-G-10	Weitzel Lake	2738G	1983
74-G-11	Isolation Lake	2737G	1983
74-G-12	Lisgar Lakes	2736G	1983
74-G-13	Norseman Lake	2720G	1983
74-G-14	Mayson Lake	2721G	1983
74-G-15	Engemann Lake	2722G	1983
74-G-16	Timson Lake	2723G	1983
74-H-1	Bailey Lake	2775G	1983
74-H-2	Alexander Lake	2774G	1983
74-H-3	Lockwood Lake	2773G	1983
74-H-4	Zimmer Lake	2772G	1983
74-H-5	Colquhoun Lake	2756G	1983
74-H-6	Russell Lake	2757G	1983
74-H-7	Hodges Lake	2758G	1983
74-H-8	Beckett Lake	2759G	1983
74-H-9	McDowell Lake	2743G	1983
74-H-10	Keefe Lake	2742G	1983
74-H-11	Hughes Lake	2741G	1983
74-H-12	Friesen Lake	2740G	1983
74-H-13	Rabinovitch Lake	2724G	1983
74-H-14	Kirsch Lake	2725G	1983
74-H-15	Close Lake	2726G	1983
74-H-16	Umpherville Lake	2727G	1983

74-I-1	Waterbury Lake	2711G	1982
74-I-2	Blixrud Lake	2710G	1982
74-I-3	Hichol Lake	2709G	1982
74-I-4	Little Cree River	2708G	1982
74-I-5	Rapid River	2692G	1982
74-I-6	Pasfield Lake	2693G	1982
74-I-7	Unknown Lake	2694G	1982
74-I-8	Henday Lake	2695G	1982
74-I-9	Waterfound River	2679G	1982
74-I-10	Forsyth Lake	2678G	1982
74-I-11	Granger Lake	2677G	1982
74-I-12	Poitras Lake	2676G	1982
74-I-13	Wapata Lake	2680G	1982
74-I-14	Umfreville Lake	2681G	1982
74-I-15	Orr Lake	2682G	1982
74-I-16	Kosdaw Lake	2683G	1982
74-J-1	Rotariu Lake	2707G	1982
74-J-2	Sanderson Lake	2706G	1982
74-J-3	Bernard Lake	2705G	1982
74-J-4	Brudell Lake	2704G	1982
74-J-5	Snare Lake	2688G	1982
74-J-6	Weeres Lake	2689G	1982
74-J-7	Bruce Lake	2690G	1982
74-J-8	Thomson Lake	2691G	1982
74-J-9	McLeod Lake	2675G	1982
74-J-10	Birkbeck Lake	2674G	1982
74-J-11	Livingstone Lake	2673G	1982
74-J-12	Birney Lake	2672G	1982
74-J-13	Urton Lake	2656G	1982
74-J-14	Squirrel Lake	2657G	1982
74-J-15	Gardipee Lake	2658G	1982
74-J-16	Lawrysyn Lake	2659G	1982
74-K-1	McTaggart Lake	2703G	1982
74-K-2	Millard Lake	2702G	1982
74-K-3	James Creek	2701G	1982
74-K-4	Larter Creek	2700G	1982
74-K-5	Cluff Lake	2684G	1982
74-K-6	Jolley Lake	2685G	1982
74-K-7	Payne Lake	2686G	1982
74-K-8	Kalin Lake	2687G	1982
74-K-9	Morrison Lake	2671G	1982
74-K-10	Field Lake	2670G	1982
74-K-11	Carswell Lake	2669G	1982
74-K-12	Bartlett Lake	2668G	1982
74-K-13	Dowler Lake	2652G	1982
74-K-14	Silverthorn Lake	2653G	1982
74-K-15	Atchison Lake	2654G	1982
74-K-16	Davy Lake	2655G	1982
74-N-1	Archibald River	1200G	1981
74-N-2	Cantara Bay	1201G	1981
74-N-3	William Point	1202G	1981
74-N-4	Pointe Ennuyeuse	1203G	1981
74-N-5	Maurice Bay	1204G	1981
74-N-7	Crackingstone	1205G	1981
74-N-8	Goldfields	1206G	1981
74-N-9	Forget Lake	1207G	1981
74-N-10	Uranium City	1208G	1981
74-N-11	Thluicho Lake	1209G	1981
74-N-12	Harper Lake	1210G	1981
74-N-13	Thainka Lake	1211G	1981
74-N-14	Zin Bay	1212G	1981
74-N-15	Burchnall Lake	1213G	1981
74-N-16	Ena Lake	1214G	1981

74-O-1	Riou Lake	1215G	1961
74-O-2	Engler Lake	1216G	1961
74-O-3	Richards Lake	1217G	1961
74-O-4	Helmer Lake	1218G	1961
74-O-5	Isle Brochet	1219G	1961
74-O-6	Fond-du-Lac	1220G	1961
74-O-7	Lowe Lake	1221G	1961
74-O-8	Wiley Lake	1222G	1961
74-O-9	Fontaine Lake	1223G	1961
74-O-10	Oman Lake	1224G	1961
74-O-11	Forsyth Lake	1225G	1961
74-O-12	Nevins Lake	1226G	1961
74-O-13	Dardier Lake	1227G	1961
74-O-14	Carcoux Lake	1228G	1961
74-O-15	Chappuis Lakes	1229G	1961
74-O-16	Scott Lake	1230G	1961
74-P-1	Cyprian Lake	1231G	1961
74-P-2	Perching Lake	1232G	1961
74-P-3	Fir Island	1233G	1961
74-P-4	Elizabeth Falls	1234G	1961
74-P-5	Clut Lakes	1235G	1961
74-P-6	Lytle Lake	1236G	1961
74-P-7	Higginson Lake	1237G	1961
74-P-8	Pinkham Lake	1238G	1961
74-P-9	Herbert Lake	1239G	1961
74-P-10	Young Lake	1240G	1961
74-P-11	Chambeuil Lake	1241G	1961
74-P-12	Astrolabe Lake	1242G	1961
74-P-13	Dodge Lake	1243G	1961
74-P-14	Seguin Lake	1244G	1961
74-P-15	Gaste Lake	1245G	1961
74-P-16	Offset Lake	1246G	1961

1:253,440 scale*
The following group of 31 aeromagnetic maps were compiled by means of photographic reduction in scale of the pertinent 16 1:63,360 scale aeromagnetic maps listed in the preceding section.

Map Area	*Map Title*	*Map No.*	*Year*
63-E	Pasquia Hills	7742G	1967 to 1969
63-F	The Pas	7741G	1965, 1967, 1968
63-K	Cormorant Lake	7024G	1962
63-L	Amisk Lake	7754G	1967 to 1969
63-M	Pelican Narrows	7764G	1968 & 1969
63-N	Kississing	7137G	1964
64-D	Reindeer Lake South	7152G	1964
64-E	Reindeer Lake North	[illegible]	1963
64-L	Wollaston Lake	7016G	1962
64-M	Phelps Lake	7023G	1961
73-F	Saint Walburg	7745G	1967 to 1969
73-G	Shellbrook	7744G	1967 to 1969
73-H	Prince Albert	7743G	1967 to 1969
73-I	Wapawekka	7755G	1967 to 1969
73-J	Green Lake	7231G	1952, 1966 to 1969
73-K**	Waterhen River		1952
73-N**	Buffalo Narrows		1952
73-O	Ile-a-la-Crosse	7235G	1952, 1966, 1968, 1969
73-P	Lac la Ronge	8190G	1953, 1957, 1958 1966, 1968, 1969

* This series of maps is being converted to 1:250,000 scale — orders for these maps will be filled at whichever of these two scales of maps are available at the time of order.

** Office compilation — available only as blueline prints.

74-A	Foster Lake	7153G	1964
74-B	Mudjatik	7154G	1964
74-C	La Loche	7155G	1964
74-F	Lloyd Lake	7158G	1963
74-G	Cree Lake	7157G	1963
74-H	Geikie River	7158G	1963
74-I	Pasfield Lake	7017G	1962
74-J	Livingstone Lake	7018G	1962
74-K	William River	7019G	1962
74-N	Tazin Lake	7020G	1961
74-O	Fond-du-Lac	7021G	1961
74-P	Stony Rapids	7022G	1961

Seismic Maps

See Figure 12 for areas covered.
1:126,720 scale
Compiled by C. H. Jackman.
Contour interval: 0.010 seconds.
Available only as diazo prints.
This is a series of four composite seismic time-structure maps on a seismic event near the top of the Devonian. The horizon shown is assumed to represent the Birdbear (Nisku). These maps show the township and section grids, the major geographic features and population centres, and the defined fields and pools in existence at the time the maps were drawn. Well status is shown but well names and numbers are not shown. The date column refers to the date of compilation or of the latest seismic revision.

SD-1	**Souris River**	Nov., 1972
SD-2	**Big Muddy Lake**	Jan., 1973
SD-5	**Moose Mountain**	Jan., 1969
SD-6	**Lake of the Rivers**	Sept., 1968

See Figure 11 for areas covered.
1:253,440 scale
Compiled by H. B. Sawatzky.
Contour interval: 0.010 seconds if source material was represented in two-way corrected time; 50 feet where information was based on subsea depths in feet.
Available only as diazo prints.
This is a series of seven composite seismic maps on top of the Palaeozoic. These maps show the township grid and the major geographic features and population centres. Well status is shown but well names and numbers are not shown.

Map No.	*Map title*	*Wells revised*	*Contours revised*
N - 1	**Regina**	Sept., 1968	Dec., 1968
N - 2	**Swift Current**	Mar., 1967	Apr., 1965
N - 3	**Yorkton**	Mar., 1967	Apr., 1965
N - 4	**Saskatoon**	Mar., 1967	Apr., 1965
N - 5	**Prince Albert**	June, 1971	June, 1966
N - 6	**North Battleford**	Mar., 1967	Apr., 1965
N - 7	**Buffalo Narrows**	June, 1971	Apr., 1965

Seismic Velocity Surveys

(i) Diazo prints of the continuous seismic velocity survey data where the data is no longer confidential are available, and:
(ii) A catalogue listing the total coverage of the continuous seismic velocity surveys conducted in Southern Saskatchewan by various Crown permit holders in compliance with the Geophysical Exploration Regulations is available.

For further information contact the Department of Energy and Mines, Geophysics Section, 1914 Hamilton St., Regina, Sask., S4P 4V4, telephone (306) 565-2615.

Magnetic Map

N-14

Regional Magnetic Map of Southern Saskatchewan.

1:506,880 scale. Compiled by H. B. Sawatzky, April, 1957, revised Oct., 1958, Oct., 1971. Contour interval: 100 gammas. Map area: Townships 1-46; Manitoba to Alberta borders. Available only as diazo prints. Prepared from data submitted to the department by various Crown permit holders which has attained non-confidential status.

Gravity Maps

See Figure 11 for areas covered.
1:253,440 scale.
Available only as diazo prints. The contour values are in milligals relative to the National Reference Pier at Ottawa which has a value of 980.6220 gals. and are based on gravity readings reduced by a Bouguer Factor of 0.07 mgal/ft. and using a surface density of 1.8 gm/cc. These maps have been compiled from gravity data submitted to the department by various Crown permit holders which has attained non-confidential status. The date shown is the date of compilation or of the latest revision.

G-1 Regina Compiled by J. V. Suryam, June, 1971.
G-2 Swift Current Compiled by J. V. Suryam, Mar., 1971.
G-3 Yorkton Compiled by K. F. Standing, June, 1971.
G-4 Saskatoon Compiled by J. V. Suryam, Mar., 1971.
G-5 Prince Albert Compiled by K. F. Standing, May, 1971.
G-6 North Battleford Compiled by K. F. Standing, June, 1971.

Conductivity Anomaly Locations Maps.

Scale: 1:250,000.
Compiled March 1, 1973. Available only as diazo prints.

The information shown on these maps has been compiled from airborne electromagnetic surveys submitted to the department by holders of mineral dispositions. This data is now non-confidential. Only the locations of conductors have been shown on these maps. No attempt has been made to classify or interpret the anomalies. A great variety of instruments and flying heights were used in the original surveys and this may cause geologically similar areas to exhibit different responses. For more detailed information the reader should consult the **"Airborne Geophysical Index"** or the original maps and reports in the assessment files at the offices of the Department of Energy and Mines. Maps available:

63-L	**Amisk Lake**
63-M	**Pelican Narrows**
64-D	**Reindeer Lake South**
64-E	**Reindeer Lake North**
64-L	**Wollaston Lake**
64-M	**Phelps Lake**
73-O	**Ile-a-la-Crosse**
73-P	**Lac la Ronge**
74-A	**Foster Lake**
74-B	**Mudjatik**
74-C	**La Loche**
74-F	**Lloyd Lake**
74-G	**Cree Lake**
74-H	**Geikie River**
74-I	**Pasfield Lake**
74-N	**Tazin Lake**
74-O	**Fond-du-Lac**
74-P	**Stony Rapids**

Airborne Geophysical Index, Precambrian Area

Compiled by W. J. Schuster, 1972; Revised by J. D. George, 1975

These index maps of northern Saskatchewan show the location of airborne geophysical surveys submitted as assessment work for the Precambrian area. Areas surveyed have been outlined on these maps and numbered according to the file numbering system used by the department in other indexes to assessment work. Accompanying this series of maps is a 51 page index listing the particulars of each survey including the name of the property and its owner, the geophysical surveyor, the date flown, instrumentation and flight-line data. The status of each file, either open or confidential is given.

Index
(publication plus three printed monochrome index maps, 1:1,520,640 scale)

Index maps only
(diazo prints), 1:760,320 scale.

D-386 Index Map of Airborne Magnetic Surveys
D-387 Index Map of Airborne Radiometric Surveys
D-388 Index Map of Airborne Electromagnetic Surveys

For more detailed information the reader should consult the original maps and reports in the assessment files at the offices of the Department of Energy and Mines.

See also Miscellaneous Reports 79-4, 79-5, 82-10, 84-6.

Structure Test Hole Location Maps and Logs

See Figure 11 for areas covered.
1:253,440 scale.
Available only as diazo prints.

These maps show the township and section grids, the major geographical features and population centres, and the locations of the structure test holes drilled under the Geophysical Exploration Regulations. Geophysical logs obtained from the structure test holes shown on the maps are available where the data is no longer confidential. These maps are revised periodically-latest revision will be supplied. For further information contact the Department of Energy and Mines, Geophysics Section, 1914 Hamilton St., Regina, Sask., S4P 4V4, telephone (306) 565-2615.

W-330 **Regina.** Revised September 1975.
W-331 **Swift Current.** Revised May 1974.
W-332 **Yorkton.** Revised September 1975.
W-333 **Saskatoon.** Revised September 1975.
W-334 **Prince Albert.** Revised September 1975.
W-335 **North Battleford.** Revised June 1974.
W-336 **Buffalo Narrows.** Revised June 1978.

Maps and Reports of Geophysical Surveys, Sedimentary Area.

These maps and reports of geophysical surveys conducted in the southern sedimentary (Phanerozoic) area of Saskatchewan have been submitted to the department by disposition holders in compliance with the requirements of the Mineral Resources Act and regulations thereunder. They have attained non-confidential status and are now available to the public.

The following three index maps of the southern sedimentary area of Saskatchewan show the extent of both the confidential and non-confidential geophysical data coverage on file in the department (these index maps are revised periodically — the latest revision will be supplied):

D-150 Index map of Seismic Structure Contour Maps	No charge
D-151 Index Map of Aeromagnetic and Magnetometer Contour Maps	No charge
D-152 Index Map of Gravity Meter Contour Maps	No charge

Itemized index lists and prices of individual non-confidential geophysical maps and reports in the sedimentary area of Southern Saskatchewan submitted to the department by disposition holders in compliance with the requirements of the Mineral Resources Act and regulations thereunder are described in detail in the following three publications:

- * **Index of Seismic Structure Contour Maps and Reports (1971)**
- * **Index of Gravity, Magnetic and Miscellaneous Maps and Reports (1971)**
- * **Index of Supplementary List of Maps and Reports (1975)**

*These three publications are currently in the process of revision, update and consolidation into one comprehensive publication — the latest available version will be supplied.

Well Maps

Well Location Maps

See Figure 12 for areas covered.
1:126,720 scale.
Available only as diazo prints.
These maps show the township and section grids, the major geographic features and population centres, the defined pools and all wells. These maps are revised weekly.

W-210 Souris River
W-211 Big Muddy Lake
W-212 Lake of the Rivers
W-213 Moose Mountain
W-232 Bigstick Lake
W-233 Cypress Lake
W-313 Cold Lake
W-314 Brightsand Lake
W-318 Kiyiu Lake
W-319 Tramping Lake

Well Penetration Maps

See Figure 11 for areas covered.
Scale: 1:253,440
These maps show the township grid, the major geographic features and population centres and the location of wildcat and field wells in Saskatchewan. In pools and fields and in wildcat areas where drilling is congested only the deeper wells are shown. Symbols indicate the geological system (e.g., Jurassic, Mississippian) in which these wells are bottomed. These maps are revised periodically.

W-320 Regina. Revised April 1976
W-321 Swift Current. Revised April 1976
W-322 Yorkton. Revised September 1975
W-323 Saskatoon. Revised April 1976
W-324 Prince Albert. Revised December 1980.
W-325 North Battleford. Revised April 1976.
W-326 Buffalo Narrows. Revised April 1976.
W-342 La Ronge. Revised July 1976.

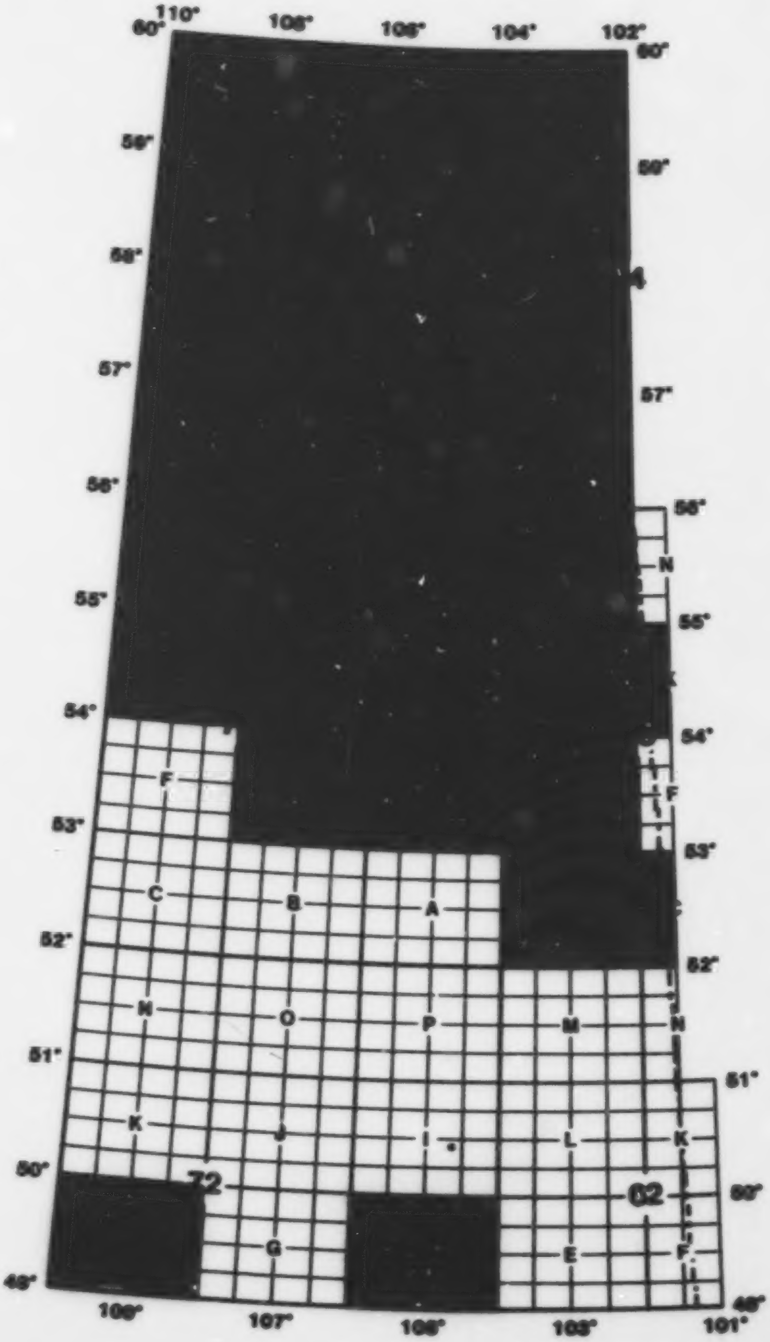
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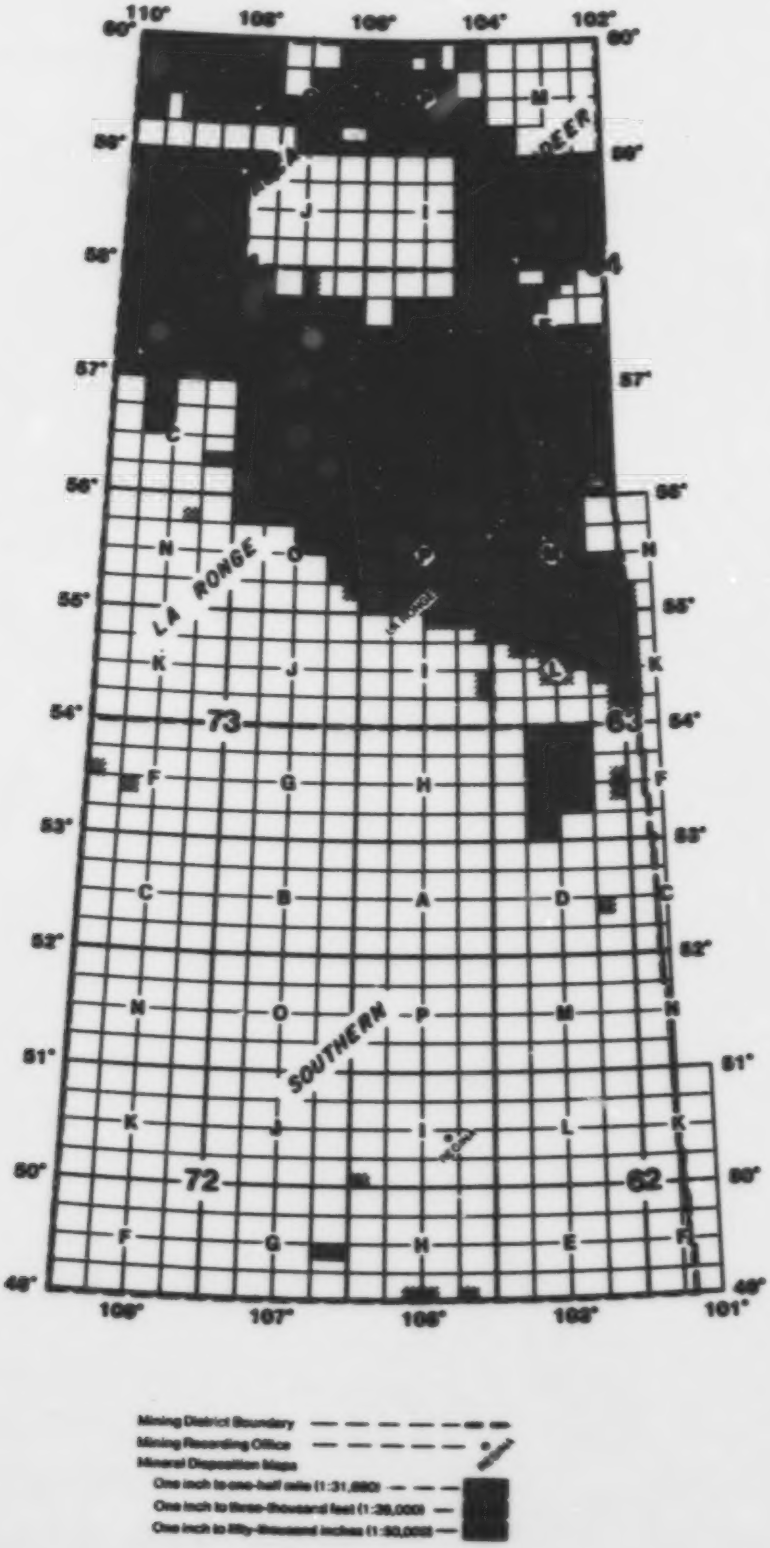
Figure 13 — Index map of 1:250,000 Precambrian Mineral Disposition maps. Shaded areas indicate maps available.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101°
Mining District Boundary
Mining Recording Office
Mineral Disposition Maps
One inch to one-half mile (1:31,680)
One inch to three-thousand feet (1:36,000)
One inch to fifty-thousand inches (1:50,000)

Figure 14 — Index Map of 1:31,680, 1:36,000 and 1:50,000 scale Mineral Disposition Maps including the Mining District Areas.

Disposition Maps

Mineral Land Ownership

The department is organized to identify ownership of minerals to distinguish between Crown and privately owned (Freehold) mineral land. Assistance in the identification of such ownership, together with complete information on Crown dispositions (e.g., leases, permits, reservations, etc.) is available in the following forms:

1. Township Plats.

1;31,680 (one inch to one-half mile) scale. These plats are available in two different forms:

- (i) **Petroleum and Natural Gas**, or;
- (ii) **Industrial Minerals.**

Please specify which type of plat is required as well as the Township No., the Range No. and which Meridian the plat lies West of. Information is transcribed to these plats from the departmental land registers identifying the following for each township:

- (a) **Crown mineral lands under disposition;**
- (b) **Company or person to whom disposition granted;**
- (c) **Crown mineral lands undisposed.**

Note: *Mineral lands not owned by the Crown are designed FH (Freehold) on the above township plats — for specific ownership of these Freehold parcels please contact the Saskatchewan Land Titles Office in the appropriate Saskatchewan Land Registration District.*

2. Records.

Records showing dispositions on Crown Mineral Lands in the surveyed areas of Saskatchewan are open for inspection for those who require a record of day by day changes. There is no charge for this information which includes the following:

- (a) **Category and disposition number;**
- (b) **Effective date and term of disposition;**
- (c) **Date and number of registration;**
- (d) **Company or person to whom disposition granted.**

D-309

Petroleum and Natural Gas Disposition Map.

1:1,000,000 scale. Available only as diazo prints. This map shows the lands held under disposition under the headings of: Petroleum and Natural Gas Permits; Oil Shale Permits; Helium Permits; Area Reserved For Potash Mining; Crown Acreage Under Lease; Lease Pending; Crown Acreage Under Gas Lease Only. Disposition holders are identified on a separate accompanying list. The map and list are revised as data is received.

D-359

Precambrian Mineral Permit Map

1:1,000,000 scale. Available only as diazo prints. This map covers all of Saskatchewan and shows the areas covered by Mineral Prospecting Permits and Crown Reserves (areas withdrawn from disposition). Disposition holders are identified on a separate accompanying list. The map and list are revised as data is received.

S-33

Subsurface Minerals Disposition Map.

1:506,880 scale. Available only as diazo prints. Map area: 50°-53° North Latitude (approximately Township 12-45), Manitoba to Alberta borders. This map shows the areas held under potash, salt, magnesium, etc., permits and leases. Subsurface minerals exploration wells drilled (excluding well drilled under the Petroleum and Natural Gas Regulations) are included. Disposition holders are identified on the map. This map is revised as data is received.

Coal Disposition Maps

1:253,440 scale. Available only as diazo prints. These maps show the Crown coal lands which are under disposition, Crown coal lands which are available for disposition, and freehold coal lands. Disposition holders are not identified. These maps are revised as data is received.

D-384 Willow Bunch - Estevan

Townships 1-10, Manitoba border to the Third Meridian.

D-385 Shaunavon - Wood Mountain

Townships 1-10, Third Meridian to the Alberta border.

Precambrian Mineral Disposition Maps

1:250,000 scale. Available only as diazo prints. See Figure 13 for available coverage; see paragraph 4 of Figure 1 for map area number.

These maps show permits, leases, claim blocks and groups of mineral claims where such groups consist of a block of four (2 × 2) or more contiguous claims held by one staker. Disposition holders are not identified. These maps are revised as data is received.

Mineral Disposition Maps

1:31,680, 1:36,000 and 1:50,000 scales. Available only as diazo prints. See Figure 14 for available coverage; see paragraphs 6 and 7 of Figure 1 for NTS area numbers of available maps.

These maps show permits, leases, claim blocks, Crown reserves and mineral claims, all with reference number identification. Disposition holders are not identified on these maps. These maps are revised as data is received.

Note: *The 1:31,680 and 1:36,000 (imperial) scale series of maps are being superseded by the 1:50,000 (metric) scale series — for any specific area the latest available version will be supplied.*

Base (outline) Maps

B-182 Saskatchewan
1:4,000,000 (approximately) scale.
Shows only the degree grid, the township grid, the major geographical features and the major population centres. Printed in monochrome on 8.5 × 14.0 inch sheets and made up into pads of approximately 50 sheets per pad.

1:506,880 scale
Available only as diazo prints. These two maps show only the township grid and the major geographic features and population centres.

B-88 South Saskatchewan
Map area: Townships 1-40, Manitoba to Alberta borders.

B-89 Central Saskatchewan
Map area: Townships 41-80, Manitoba to Alberta borders.

1:253,440 scale
See Figure 11 for the areas covered.
These maps are available only as diazo prints. These maps show only the township grid and the major geographic features and population centres.

B-120 Swift Current
B-121 Regina
B-122 Saskatoon
B-123 Yorkton
B-124 North Battleford
B-125 Prince Albert
B-126 Buffalo Narrows
B-178 La Ronge

1:253,440 scale
See Figure 11 for the areas covered.
These maps are available only as diazo prints. These maps show only the township and section grids, and the major geographical features and population centres.

B-135 Regina
B-136 Swift Current
B-137 Yorkton
B-138 Saskatoon
B-139 Prince Albert
B-140 North Battleford
B-141 Buffalo Narrows

B-82 Prince Albert Area
See Figure 12 for the area covered.
1:126,720 scale.
Available only as diazo prints. This map covers that portion of Saskatchewan within which River Lots occur and within which there is considerable intermingling of lands surveyed by the First and Third Systems of Survey of Dominion of Canada Lands. This map shows only the major geographic features, the township and section grids, the river lots, railroads and population centres. All river lots and "oddly surveyed" lands are also shown at the side of the map at 1:31,680 scale.

Saskatchewan Research Council Maps

1
Physiographic Divisions of Saskatchewan, 1960. 1:1,520,640 scale (one inch to 24 miles). Map with extensive explanatory legend.

2 Out of print
Ice Frontal Positions in Saskatchewan, 1965.

3 Out of print
Preglacial Valleys in Southern Saskatchewan, 1965.

Note:
The following comments apply to the Geology and Groundwater maps (Maps 4 to 23) listed below:

Scale: 1:250,000.
Includes bedrock geology and topography of the bedrock surface. Cross sections of drift and bedrock are presented. Aquifers and potential water sources are delineated.

4
Geology and Groundwater Resources of the Battleford Area, by E. A. Christiansen, 1967. NTS Area 73-C.

5
Geology and Groundwater Resources of the Wood Mountain Area, by S. H. Whitaker, 1967. NTS Area 72-G.

6
Geology and Groundwater Resources of the Melfort Area, by W. A. Meneley, 1967. NTS Area 73-A.

7
Geology and Groundwater Resources of the Saskatoon Area, by E. A. Christiansen, 1967. NTS Area 73-B.

8
Geology and Groundwater Resources of the Hudson Bay Area, by S. R. Moran and S. H. Whitaker, 1969. NTS Area 63-C (part) and 63-D.

9
Geology and Groundwater Resources of the Yorkton Area, by J. A. Cherry and S. H. Whitaker, 1969. NTS Area 62-M and part 62-N.

10
Geology and Groundwater Resources of the Wynyard Area, by E. A. Christiansen, 1970. NTS Area 72-P.

11
Geology and Groundwater Resources of the Swift Current Area, by S. H. Whitaker, 1970. NTS Area 72-J.

12
Geology and Groundwater Resources of the Melville Area, by E. A. Christiansen, 1971. NTS Area 62-K (part) and 62-L.

13
Geology and Groundwater Resources of the Regina Area, by E. A. Christiansen, 1971. NTS Area 72-I.

14
Geology and Groundwater Resources of the Rosetown Area, by E. A. Christiansen and W. A. Meneley, 1971. NTS Area 72-O.

15
Geology and Groundwater Resources of the Prince Albert Area, by E. A. Christiansen, 1973. NTS Area 73-H.

16
Geology and Groundwater Resources of the Prelate Area, by P. P. David and S. H. Whitaker, 1973. NTS Area 72-K.

17
Geology and Groundwater Resources of the Shellbrook Area, by E. A. Christiansen, 1973. NTS Area 73-G.

18
Geology and Groundwater Resources of the St. Walburg Area, by E. A. Christiansen and S. H. Whitaker, 1973. NTS Area 73-F.

19
Geology and Groundwater Resources of the Waterhen River Area, by E. A. Christiansen and S. H. Whitaker, 1974. NTS Area 73-K.

20
Geology and Groundwater Resources of the Willow Bunch Area, by S. H. Whitaker, 1974. NTS Area 72-H.

21
Geology and Groundwater Resources of the Weyburn Area, by S. H. Whitaker, 1974. NTS Area 62-E and part 62-F.

22
Geology and Groundwater Resources of the Cypress Area, by S. H. Whitaker, 1976. NTS Area 72-F.

23
Geology and Groundwater Resources of the Kindersley Area, by E. A. Christiansen, T. J. Kewen and A. T. Schneider, 1980. NTS Area 72-N.

Miscellaneous Maps

The maps listed in this section are of various types that cannot be readily grouped with the maps of the preceding sections.

Exploration Data Maps

Scale: 1:15,840
Compiled by M. J. Ziegler, 1978.

A series of twelve adjoining map sheets containing information on uranium exploration has been compiled for the Uranium City-Beaverlodge Lake mining area of the Athabasca Mining District of Saskatchewan.

The data shown on these maps was obtained from the assessment records in the files of the Mines Branch of the Department of Energy and Mines and covers exploration work carried out between 1930 and 1977. These maps are revised periodically and are available only as diazo prints.

The following information is shown on these maps: uranium showings assaying 0.05% or more U_3O_8; features of mine development such as adits and shafts; diamond drill holes; airborne and ground geophysical anomalies, including radiometric anomalies; the more important fault and fracture zones; the trace of the Tazin Group/Martin Formation and Tazin Group/Athabasca Formation unconformities.

The National Topographic Systems areas covered by these twelve map sheets are as follows:

1. **The west half of 74-N-9-S.W.**
2. **The east half of 74-N-10-S.E.**
3. **The west half of 74-N-10-S.E.**
4. **The east half of 74-N-10-S.W.**
5. **The west half of 74-N-10-S.W.**
6. **The northwest quarter of 74-N-8-N.W.**
7. **The east half of 74-N-7-N.E.**
8. **The west half of 74-N-7-N.E.**
9. **The east half of 74-N-7-N.W.**
10. **The west half of 74-N-7-N.W.**
11. **The east half of 74-N-7-S.W.**
12. **The west half of 74-N-7-S.W.**

Potential Peat Areas of Saskatchewan South of the Precambrian Shield, by R. Troyer, 1978.
1:1,267,200 scale.
Available only as diazo prints.
Areas of peat accumulation are identified by means air photo interpretation.

Index Map of Saskatchewan.
1:1,267,200 scale.
This map has the National Topographic System grid overprinted on a detailed map of Saskatchewan. Includes an extensive list of geographical names on the back of the map which are location-referenced to the National Topographic System grid on the front of the map.

Mineral Development Map of Southern Saskatchewan, Dec. 31, 1982 (Revised annually — latest revision supplied).
Available in two sizes:
Small: 1:2,534,400 scale; 28 × 40 cm.
Large: 1:1,000,000 scale; 71 × 101 cm.
This coloured map shows the designated oil and gas pools and pipelines, oil refineries, gas conservation plants, well spacing areas, commercial potash areas, potash mines, sodium sulphate deposits and plants, salt plants, helium plants.

Mineral Map of Saskatchewan, 1980
Available in two sizes:
Small: 1:3,484,800; 28 x 42cm No charge
Large: 1:1,218,400; 71 x 112 cm
This coloured map shows the extent of the areas of commercial deposits of potash, oil (differentiated into light, medium and heavy areas), natural gas and coal. All producing mines and mines under development are shown together with the names of mining companies and the pertinent minerals. Also included are mineral deposits of sufficient extent to qualify as potential future mines.

Mineral Deposits Map of Northern Saskatchewan
(North of 54° North Latitude), by R. J. C. Munday.
1:1,267,200 scale.
Published 1972, from data compiled to Dec. 1970.

Each deposit is marked by a coloured symbol and is numerically identified. The shape of the symbol denotes the type of the deposit; the size indicates whether the deposit is classified as an occurrence (smallest symbol), prospect (medium-sized symbol) or mine (largest symbol); the colour identifies the main economic elements. Reference to the number in the accompanying tables gives the more usual name of the deposits, all economic elements so far identified from the deposit, and the most comprehensive reference to the deposit.

Data Base, Statistical and Periodicals

The Saskatchewan Mineral Deposits Index

This index is a compilation of information available on known mineral deposits and showings in northern Saskatchewan. The index cards include: the principal mineral commodity, the name of the property, the National Topographic System (NTS) number of the map sheet, the latitude and longitude, a brief property description, a summary of the exploration history, and a list of references or sources of information. This information is available as computer printout listed either by NTS map sheet number, or by the principal mineral commodity in consecutive order of NTS map sheet numbers. Xerox photocopies of the original file cards are also available. Diazo (blueline) copies of locations maps are available on:

1:253,440 aeromagnetic map bases; or
1:63,360 aeromagnetic map bases; or
1:50,000 planimetric map bases.

Computer listings:

- entire listing (either by NTS areas or by commodity type — please specify);
- both listings;
- partial listings (either by NTS area or by commodity type — please specify) (minimum 150 entries).

For further information contact:

Saskatchewan Geological Survey
Geodata Section
1914 Hamilton St.
Regina, Sask., S4P 4V4
Telephone: (306) 566-9180
Telex: 071-2786

Precambrian Data File Series

This series makes available all or parts of selected databases maintained within the department. These files contain unedited information. Saskatchewan Energy and Mines assumes no liability for errors. The latest update of each data file is available for **viewing only** at the Publications Office in Regina and the Resident Geologist's Office in La Ronge. The latest updated version may be purchased at current rates from Regina Fast Print, 1639 Broad Street, Regina, Saskatchewan, S4P 1X3, phone (306) 359-1944. The following geological bibliographies prepared in conjunction with the 1:250,000 scale compilation bedrock geological map series (Reports 211, 228, 229, 232) are available.

DF 1

Reindeer Lake North Geological Bibliography

(NTS Area 64E), compiled by M.W. Thomas and W.L. Slimmon, 1983.

DF 2

Wollaston Lake Geological Bibliography

(NTS Area 64L), compiled by M.W. Thomas and W.L. Slimmon, 1983.

DF 3

Foster Lake Geological Bibliography

(NTS Area 74A), compiled by M.W. Thomas and W.L. Slimmon, 1983.

DF 4

Geikie River Geological Bibliography

(NTS Area 74H), compiled by M.W. Thomas and W.L. Slimmon, 1983.

Well Data

Searches of the non-confidential records on the well information system files are conducted on a custom basis. The output of searches requiring the entire information on the selected wells is available either as computer printout or on magnetic tape. Searches calling for selected information only are available only as printout.

- A minimum charge will be made per search.
- A charge per well in addition to the minimum charge will be made when the number of wells exceeds 667.
- For magnetic tape output a further charge will be made for the reel of tape which will then become the property of the requestor.
- If the search requested requires special programming this will be charged for in addition to the preceding output charges.

Composite Schedule of Wells

This schedule containing basic geological and engineering data on every well drilled in Saskatchewan from 1874 to the end of 1973 is available in two forms:

- As 38 microfiche (207 frames or pages), or;
- As two microfilm cassettes.

These microfilm cassettes may be purchased either comic mode (laterally, side by side) or cine mode (vertically, end to end). Reels may be substituted for cassettes.

This **Composite Schedule of Wells** may be purchased; please specify the form in which it is to be supplied: microfiche; comic mode cassette or reel; cine mode cassette or reel.

Annual Supplements to the Composite Schedule of Wells. Available on microfiche only as follows:

Volume 23 1973-1974
Volume 24 1974-1975
Volume 25 1975-1976
Volume 26 1976-1977

Oil Reserves Computer Tape

Contains all oil reserves data listed by geographical area, crude type, pool, unit and producing horizon for all of Saskatchewan. The following parameters are listed for each pool and unit: area, average net pay, average porosity, water saturation, formation volume, density of oil, producing depth, producing system, year discovered, estimated recovery factors and cumulative and yearly production. The program calculates the initial oil-in-place,initial reserves (primary, enhanced, total) and remaining reserves. All values are in metric units. This tape is updated annually. The data shown is essentially identical to that published in the "Reservoir Annual" which is listed in the Miscellaneous Reports section of this catalogue.

Crude Oil and Natural Gas Production Statistics

Historical Production Data

This data is available in several different formats and to some extent can be tailored to accomodate the users requirements.

- Historical production data for all individual oil, gas and water wells is available on magnetic tape. The tape contains production data on all wells that have ever produced in Saskatchewan, starting from 1935 up to and including the most current month.

  This tape is available by:
  Monthly subscription, or by:
  Quarterly subscription, or as:
  Single request

  either on a purchase basis or on a rental basis.
- Historical production data for all individual oil, gas and water wells can also be obtained on microfiche. Production is based on a total provincial basis, but can also be obtained on an individual area/crude type basis.

For further information regarding retrieval format, pricing and update service please contact:

Department of Energy and Mines
Petroleum Statistics Branch
1914 Hamilton St.
Regina, Sask., S4P 4V4
Telephone: (306) 565-2552 or (306) 565-2549
Telex 071-2786.

Individual Well Retrievals

Monthly historical production data for individual oil, gas or water wells is available on printout.

Individual Well Retrievals and Performance Reports

Monthly historical well performance information for individual oil, gas or water wells is available on printout.

Pool (Unit and Non-Unit) Retrieval and Performance Reports.

Monthly historical pool performance information is available for all pools in the province. Requests can be made for an entire pool, the unitized portion of a pool or the non-unitized portion of a pool. Reports are available on printout.

Mini-History Retrieval.

Cumulative production data for all oil, gas and water wells currently producing, or that have ever produced in the province is available in microfiche or printout format.

Production Master Well Index

This index contains one line for every well that was ever drilled in Saskatchewan. The following information is provided for each well: location, horizon-poul, area crude type, operator code, well name, unit/non-unit status, production dates, physical (reporting) battery code, department battery code and current status. The index is available in microfiche or magnetic tape either by:

Quarterly Subscription, or by:
Single Request.

Mailing Lists

The department maintains various mailing lists for certain items of a specific nature. If you wish to have your name included on any of the mailing lists this may be arranged through the Publications Office of the department. The lists that are currently operative are as follows:

Annual Report of the Department of Energy and Mines (ISSN 0581 09).
No charge. (The Annual Report is also listed in the Miscellaneous Reports section of this catalogue).

Notice of Sale of Petroleum and Natural Gas Rights.
No charge. A detailed listing of the Crown petroleum and natural gas rights in the form of permits, drilling reservations and leases being offered for sale. This notice is mailed approximately thirty days prior to the date of sale.

Supplementary Land Sale Information
Available either by annual subscription or by single sale. Sales are usually held in April, June, September and December. Subscriptions are prorated to begin Jan. 1 and end Dec. 31. This supplementary information consists of (i) maps showing the locations of the parcels and blocks involved in the sales, and (ii) a list of the available seismic, gravity and magnetic map coverage for the blocks, and; (iii) computer printout of supplementary well information and production history of producing and non-producing wells near the Crown petroleum and natural gas permits, drilling reservations and leases being offered for sale. This information is mailed as soon as the data has been compiled.

Land Sale Results
No charge. Lists the Crown petroleum and natural gas sale results by departmental disposition file number, company, land description, value of bonus, and hectorage/acreage.

Monthly Drilling Activity Report
(Formerly "Weekly Drilling and Land Report") (ISSN 0228 5630).
Available either by annual subscription or single copies. A monthly report which lists by Production and Disposition Areas (see Figure 6 for Area boundaries) and classification the well licences issued, wells finished drilling, well completions, well abandonments, wells brought on production, plugback wells, well name changes, well licences cancelled, well reclassifications and well amendments.

Monthly Oil and Gas Production Report
(Formerly "Monthly Oil and Gas Report") (ISSN 0228 5622).
Available either by annual subscription or single copies. A monthly report which lists by Production and Disposition Areas (see Figure 6 for Area boundaries) the monthly production of oil, gas and water for Units and Pools. Cumulative production figures for the current year are included.

Announcement of New Publications Available.
No charge. A quarterly notice listing those new publications of the department that have become available for distribution in the preceding quarter.

Energy Flow Accounts. (ISSN 0708 384X)
No Charge. (The Energy Flow Accounts also appear, and are described in detail, in the Miscellaneous Reports section of this catalogue).

Lapsed Precambrian Mineral Dispositions.
No charge. Issued monthly. Lists by departmental file number and National Topographic System map area number those Precambrian Mineral Dispositions that have expired in the preceding month.

Catalogue of Maps, Publications and Services
No charge. A periodical mailing of those pages of the Catalogue of Maps, Publications and Services on which there has been sufficient change to warrant a printing update. Includes new editions of the catalogue when applicable.

Miscellaneous Items

This section of this catalogue contains a variety of assorted items that do not fit or cannot be readily identified with any of the other established sections or categories in this catalogue.

Cross Sections

On the stratigraphic cross sections listed below (A-214 and A-215) mechanical well logs and lithology are presented on a 1:1,200 (1 inch = 100 feet) vertical scale for all strata from the top of the Lower Colorado to the Precambrian basement. Each major stratigraphic unit is correlated across the sections. Four datum planes are used: the tops of the Lower Colorado; the Mississippian; the Devonian and the Lower Palaeozoic.

A-214

North-South Regional Cross Section of Saskatchewan, by R. B. Hutt, 1963. This section extends from the Meadow Lake Basin to the International Boundary and in general runs parallel to the Third Meridian. It includes 25 wells extending from Great Plains McDermott No. 8-8 (Lsd. 8-8-64-2W3) in the north to R.O. Corp Killdeer No. 12-21 (Lsd. 12-21-2-29W2) in the south. This section is printed on ten overlapping sheets and also includes a general legend sheet, a structure section (drawing No. A-216) and a stratigraphic correlation chart (drawing No. G-193).

A-215

East-West Regional Cross Section of Saskatchewan, by R. B. Hutt, 1963. This section extends from the Alberta to Manitoba borders and in general runs parallel to and stays within six townships of the International Boundary. It includes 16 wells extending from Shell Barclay Supreme No. 1 (Lsd. 7-2-2-28W3) in the west to Socony W.P.I. Carievale No. 1 (Lsd. 16-4-3-32W1) in the east. This section is printed on eight overlapping sheets and it also includes a general legend sheet, a structure section (drawing No. A-217) and a stratigraphic correlation chart (drawing No. G-193).

Note: *The structure sections and the stratigraphic correlation chart which are included with the above two stratigraphic cross sections are also available separately — see the three following items.*

A-216

North-South Structure Section of Saskatchewan, by R. B. Hutt, 1963. Horizontal scale: 1:633,600 (1 inch = 10 miles); vertical scale: 1:7,200 (1 inch = 600 feet). Extends along the Third Meridian from Great Plains McDermott No. 8-8 (Lsd. 8-8-64-2W3) to R.O. Corp. Killdeer No. 12-21 (Lsd. 12-21-2-29W2). Stratigraphic units are correlated across the section but no lithology or mechanical logs of the individual wells are presented.
Note: *This structure section is included with stratigraphic section A-214 listed in a preceding entry in this section of the catalogue.*

A-217

East-West Structure Section of Saskatchewan, by R. B. Hutt, 1963. Horizontal scale: 1:633,600 (1 inch = 10 miles); vertical scale: 1:7,200 (1 inch = 600 feet). Extends along the International Boundary from Shell Barclay Supreme No. 1 (Lsd. 7-2-2-28W3) to Socony W.P.I. Carievale No. 1 (Lsd. 16-4-3-32W1). Stratigraphic units are correlated across the section but no lithology or mechanical logs of the individual wells are presented.
Note: *This structure section is included with stratigraphic section A-215 listed in a preceding entry in this section of the catalogue.*

G-193

Stratigraphic Correlation Chart of Saskatchewan and Adjoining Areas. Revised Oct., 1963. Shows the sequence of stratigraphic units from the top of the Quaternary to the Precambrian basement for the following nine type areas: Southeast Alberta; Southwest Saskatchewan; Northeast Montana; North Dakota; Southeast Saskatchewan; Western Manitoba; East Central Alberta; West Central Saskatchewan and East Central Saskatchewan.
Note: *This correlation chart is included with stratigraphic sections A-214 and A-215 listed in preceding entries in this section of the catalogue.*

Geology of Saskatchewan, by Douglas F. Paterson, 1973, revised 1981. Full-colour poster especially suitable for teaching purposes — size 21" × 30". The relative positions, thicknesses and structural dispositions of the Geological Systems occurring in Saskatchewan are illustrated as a block diagram drawn in three-dimensional prespective view from the southeast. The names and average ages of each system are given at the side. The geographic positions of the major population centres and of the Imperial Halkett Well are indicated.

Maps of the Geological Systems in Saskatchewan, by Douglas F. Paterson, 1973. Set of 14 black and white maps, each 8½" × 11" in size, intended for teaching purposes. These maps are line drawings at an approximate scale of one inch to 75 miles. They contain basic information on age, thickness, lithology and past and present areal distribution of the geological systems in Saskatchewan. The major population centres of the province are shown. The black and white printing of these maps makes them suitable for copying and colouring.

Deepest Well in Saskatchewan, by Douglas F. Paterson, 1973. Full-colour poster especially suitable for teaching purposes — size 24" × 42". The Imperial Halkett Well is situated some six miles northwest of Estevan. It was drilled by Imperial Oil Ltd. in 1956 and reached a total depth of 10,573 feet and passed through the complete sequence of Phanerozoic sedimentary rocks in Saskatchewan. The names, relative positions and thicknesses of the Geological Systems encountered are illustrated by a central stratigraphic column, and a border of coloured photographs shows some of the rocks, minerals and fossils found in these systems in various regions of Saskatchewan.

Editor's note: *In 1977 and 1978 Dome Petroleum drilled deeper wells to 10,753 and 10,872 feet respectively.*

The Geology and Uranium Deposits of the Central Part of the Carswell Structure, Northern Saskatchewan, Canada, by C.T. Harper, 1983. 605 pages including 69 figures (line drawings and photographic plates), 18 tables and appendices. 11 maps and profiles in pocket.

A copy of this Ph.D. thesis is available for viewing only at the Resident Geologist's Office in La Ronge and at the Publications Office in Regina.

Copies may be obtained at current rates from Arthur Lakes Library, Colorado School of Mines, Golden, Colorado 80401, USA. Telephone orders are accepted at (303) 273-3899. Copying rates as of December 6, 1983 were $15.00 & $3.00 handling for microfiche or $0.20 per page & $5.00 per map for hard copy. All rates quoted are in U.S. dollars.

Index of Reports Referenced to the National Topographic System.

This listing pertains only to areas within the Province of Saskatchewan whereas the NTS areas in actulity may cross provincial and national boundaries. Where a certain report may be listed as bing in NTS Area 72 this is intended to mean only that protion of NTS Area 72 that is located in Saskatchewan and not that portion of NTS Area 72 that extends into the Province of Alberta and the State of Montana.

This reference pertains only to the formal reports, the miscellaneous reprots and open files of Saskatchewan Energy and Mines and to the reports of the Saskatchewan Research Council that may be location referenced by NTS area.

Maps are not included in this reference — they are listed by map type in the maps section of this catalogue and, when drawn by NTS areas, are usually listed in order of increasing NTS area number — when drawn on a basis of other than NTS areas they are then usually listed in increasing order of drawing number.

Abbreviations used in the following reference:

SEM: Saskatchewan Department of Energy and Mines formal report.

Misc.: Saskatchewan Department of Energy and Mines miscellaneous report.

Sum.: Saskatchewan Department of Energy and Mines Summary of Investigations report (this is an annual publication of the Saskatchewan Geological Survey listed in the Miscellaneous Reports section of this catalogue — **Sum.** for the years 1970-1977 and **Misc.** for 1978 and subsequent years).

OF Saskatchewan Department of Energy and Mines open file.

SRC: Saskatchewan Research Council report.

NTS Area	*Reports*
62	SEM 7, 18, 19, 46, 52, 53, 66, 92, 98, 123, 139, 140, 150, 157, 161, 164, 165, 177, 180, 181, 194, 233 Misc. 80-4 SRC. 5
62-E	SEM 21, 45, 51, 104, 125, 163, 179, 209
62-E-1	SEM 48
62-E-6	SEM 215
62-E-7	SEM 215
62-E-10	SEM 215
62-E-11	SEM 215
62-F	SEM 45, 51, 125, 179
62-K	SEM 38, 45, 47, 51, 105, 128, 179 SRC 1
62-L	SEM 21, 38, 45, 47, 51, 128, 179 SRC 1
62-M	SEM 15, 38, 47, 129
62-N	SEM 38, 47
63	SEM 7, 36, 52, 98, 123, 139, 140, 150, 157, 164, 165, 177, 181, 194, 233 Misc. 78-10, 79-10, 80-4
63-C	SEM 38, 47, 92, 158, 180
63-D	SEM 15, 38, 47, 92, 158, 180
63-E	SEM 10, 15, 47, 158 Sum 1977
63-F	SEM 10, 47, 158
63-K	SEM 10 Misc. 81-4
63-K-12	SEM 62 Misc. 79-10, 81-4 SRC 6
63-K-13	SEM 62 SRC 6
63-L	SEM 10 Sum 1975 Misc 81-4
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The words listed in this reference were taken only from those reports falling in the six following categories:

(i) "SEM" Saskatchewan Department of Energy and Mines Reports
(ii) "Sum" Summary of Investigations Reports of the Saskatchewan Geological Survey for the period of 1970-1977, listed in the Miscellaneous Reports section
(iii) "Misc." Summary of Investigations Reports of the Saskatchewan Geological Survey — these are included with the numbered Miscellaneous Reports starting in 1978.
(iv) "RPI" Reports of Preliminary Investigation of the Industrial Minerals Research Branch listed in the Miscellaneous Reports section.
(v) "OF" Open File Reports of the Saskatchewan Geological Survey.
(vi) "SRC" Saskatchewan Research Council Reports.

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Addenda

The items listed in this section are those that have become available since the main body of the catalogue was set to type.

These items are not listed in the order of the catalogue sections, but rather they are listed in the order in which they were received by the editor.

Page 61, Column 1, under **K-72-1** add:
Alameda West Frobisher Beds, Southwest part of
Alameda West Midale Beds, Southwest part of

Page 61, Column 1, under **K-72-2** add:
Alameda West Frobisher Beds, Southwest part of
Alameda West Midale Beds, Southwest part of

Page 59, Column 1, under **K-50** add:
Alameda West Frobisher Beds
Alameda West Midale Beds

Page 57, Column 2, in Area I add:
K-96 Mannville
(Contour Interval: 5 m)
Fort Pitt North Mannville Sand Gas, North part of

Page 64, Column 1, in Area IV add

Alameda West Frobisher Beds	K-50
Alameda West Midale Beds	K-50

Page 39
Open File Reports OF 84-2 to 84-21

Quaternary Geology of the Precambrian Shield, Saskatchewan, by B.T. Schreiner, D.W. Alley and S.J. McNamara. 20 maps with marginal notes.

These 1:250,000 scale monochrome maps, each sold separately, provide compilations of the Quaternary geology throughout the entire Precambrian Shield area of Saskatchewan. They are the result of an extensive program of airphoto interpretation and field investigations carred out under contract by the Saskatchewan Research Council for the Saskatchewan Geological Survey during the period 1974-80. Funds were provided by the federal Departments of Energy, Mines and Resources (25 percent) and Regional Economic Expansion (25 percent) and by the Province of Saskatchewan (50 percent).

The field studies included traverses, detailed site examinations, shoreline and roadside investigations augerhole sampling and detailed examination of representative soils. The map units shown are generally complexes of materials, morphologies and drift thicknesses. Maps include marginal notes, augerhole logs, soil profiles and textural triangles. Additional information will be available in Report 221, consisting of text, diagrams, photographs and a 1:1,000,000 scale full colour map, which is scheduled to be published later in 1984.

OF 84-2: Amisk Area (NTS 63 K.L)
OF 84-3: Pelican Narrows Area (NTS 63 M.N)
OF 84-4: Lac la Ronge Area (NTS 73 P)
OF 84-5: Ile-a-la-Crosse Area (NTS 73 O)
OF 84-6: Reindeer Lake South Area (NTS 64 D)
OF 84-7: Foster Lake Area (NTS 74 A)
OF 84-8: Mudjatik Area (NTS 74 B)
OF 84-9: La Loche Area (NTS 74 C)
OF 84-10: Reindeer Lake North Area (NTS 64 E)
OF 84-11: Geikie River Area (NTS 74 H)
OF 84-12: Cree Lake Area (NTS 74 G)
OF 84-13: Lloyd Lake Area NTS 74 F)
OF 84-14: Wollaston Lake Area (NTS 64 L)
OF 84-15: Pasfield Lake Area (NTS 74 I)
OF 84-16: Livingstone Lake Area (NTS 74 J)
OF 84-17: William River Area (NTS 74 K)
OF 84-18: Phelps Lake Area (NTS 64 M)
OF 84-19: Stony Rapids Area (NTS 74 P)
OF 84-20: Fond-du-Lac Area (NTS 74 O)
OF 84-21: Tazin Lake Area (NTS 74 N)

This group of twenty Open File Reports are available **for viewing** only at the Resident Geologists Offices in La Ronge and Creighton, at the Publications Office in Regina, and at the Saskatchewan Research Council, 30 Campus Drive, Saskatoon, Sask.
Copies may be purchased a current rates from:
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1639 Broad Street
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Provincial Geologists Journal, 1983, Volume 1. 108 pages. The first edition of this annual publication contains separate summaries by each of the ten Provinces and two Territories for: Geoscience Organization Charts; Geological Survey Expenditures, 1982-83; Geological Program Highlights, 1982-83; Geological Publications, 1982-83; and a feature article titled "Mineral Land Use Planning in the Canadian Provinces and Territories".

Page 37
Miscellaneous Report 84-5
Energy Supply and Demand
Submission to the National Energy Board by the Saskatchewan Department of Energy and Mines, January 1984. 30 pages of text plus 158 pages of tables, graphs and data.

Page 9, Column 2
The Freehold Coal Production Tax Regulations, 1984.

Page 9, Column 2
The Mineral Rights Tax Regulations, 1984.

Page 79

High Resolution Aeromagnetic Total Field and Vertical Gradient Experimental Colour Compilation Maps

This group of four 1:50,000 scale maps, published in 1984, represents the experimental compilation of digitally recorded high-sensitivity aeromagnetic data from a survey flown in 1979 at an altitude of 150 m above ground.

The airborne survey and digital compilation was carried out by the Resource Geophysics and Geochemistry Division of the Geological Survey of Canada as part of an evaluation of uranium exploration techniques in the Athabasca Basin done in conjunction with the Saskatchewan Geological Survey under the auspices of the International Atomic Energy Agency of the United Nations and the Nuclear Energy Agency of the Organization for Economic Co-operation and Development.

Hidden Bay and Cunning Bay
NTS Area: 64-L-4 (North) and 64-L-5 (South)
Map C20, 353G Total Field
Map C40, 094G Vertical Gradient

Waterbury Lake and Henday Lake
NTS Area: 74-I-1 (Northeast) and 74-I-8 (Southeast)
Map C20, 354G Total Field
Map C40, 095G Vertical Gradient

Page 37

Miscellaneous Report 84-8

Index to Assessment Work in the Athabasca Mining District of Saskatchewan, by Anne Fuzesy, 98 + iv pages.

Note: *This report is a supplement to Miscellaneous Report 79-5 and is not intended to supersede it.*

This index is designed to inform the users, particularly those interested in Precambrian exploration, of the types of data available to them in recent files of the Department of Energy and Mines. The files which have been indexed are those submitted to the department from 1979 to 1981 by industry engaged in geological and geophysical exploration in Northern Saskatchewan. Entries in the index are grouped according to the numeric and alphabetic system of the National Topographic System grid, specifically 74I, J, K, N, O and P. A property index provides a listing of claim names, claim block numbers, permits, mineral leases and properties which cannot be included in any of these groups.

Errata and Deletions

The items listed in this section are errors and deletions that have come to the attention of the editor since the main body of the catalogue was set to type.

These items are not listed in the order of the catalogue sections but rather they are listed in the order in which they were received by the editor.

Page 62, Column 2, the fifth entry should read:
Fort Pitt North Mannville Sand Gas . . . . . K-89 and K-96

Page 16, Column 2
Report 82 is out of print.

Page 17, Column 2
Report 94 is out of print.

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	b) Both preceding listings	150.00
	c) Partial listing - by NTS Areas or by commodity type (specify) (minimum 150 entries) - per entry	0.30
	d) Diazo copies of location maps	5.00

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35.	**Well Data:**	
	a) Minimum charge per search	200.00
	b) Charge per well retrieved	0.30
	c) Magnetic tape - purchase	20.00
	d) Custom programming	46.00/hr.
36.	**Composite Schedule of Wells**	150.00
37.	**Annual Supplements to the Composite Schedule of Wells**	10.00
38.	**Oil Reserves Computer Tape**	100.00
39.	**Historical Production Data Tape:**	
	a) Rental: Monthly subscription, per year	1,200.00
	Quarterly subscription, per year	800.00
	Single request	400.00
	b) Purchase: Monthly subscription, per year	1,500.00
	Quarterly subscription, per year	900.00
	Single request	425.00
40.	**Individual Well Retrieval -Monthly Historical:** $10.00 per request plus $2.00 per well requested - minimum charge	12.00
41.	**Individual Well Retrieval and Performance Reports:** $10.00 per request plus $3.00 per well requested - minimum charge	13.00
42.	**Pool Retrieval and Performance Reports:** $10.00 per request plus $3.00 per pool requested - minimum charge	13.00
43.	**Mini History Retrieval** Printout, Microfiche (specify), per request, each	150.00
44.	**Production Master Well Index:**	
	Microfiche, single request	200.00
	quarterly subscription, per year	600.00
	Tape, single request	225.00
	quarterly subscription, per year	700.00
45.	**Mailing Lists**	
	Supplementary Land Sale Information	
	a) Annual Subscription	120.00
	b) Single Sale	30.00
	Monthly Drilling Activity Report	
	a) Annual Subscription	100.00
	b) Single Copy	9.00
	Monthly Oil and Gas Production Report	
	a) Annual Subscription	100.00
	b) Single Copy	9.00
46.	**Miscellaneous Items**	
	a) A-214, A-215	20.00
	b) A-216, A-217, G-193	5.00
	c) Geology of Saskatchewan (poster)	5.00
	d) Maps of Geological Systems in Saskatchewan	5.00
	e) Deepest Well in Saskatchewan (poster)	5.00
47.	**Addenda**	
	a) Provincial Geologists Journal	5.00
	b) Miscellaneous Report 84-5	15.00